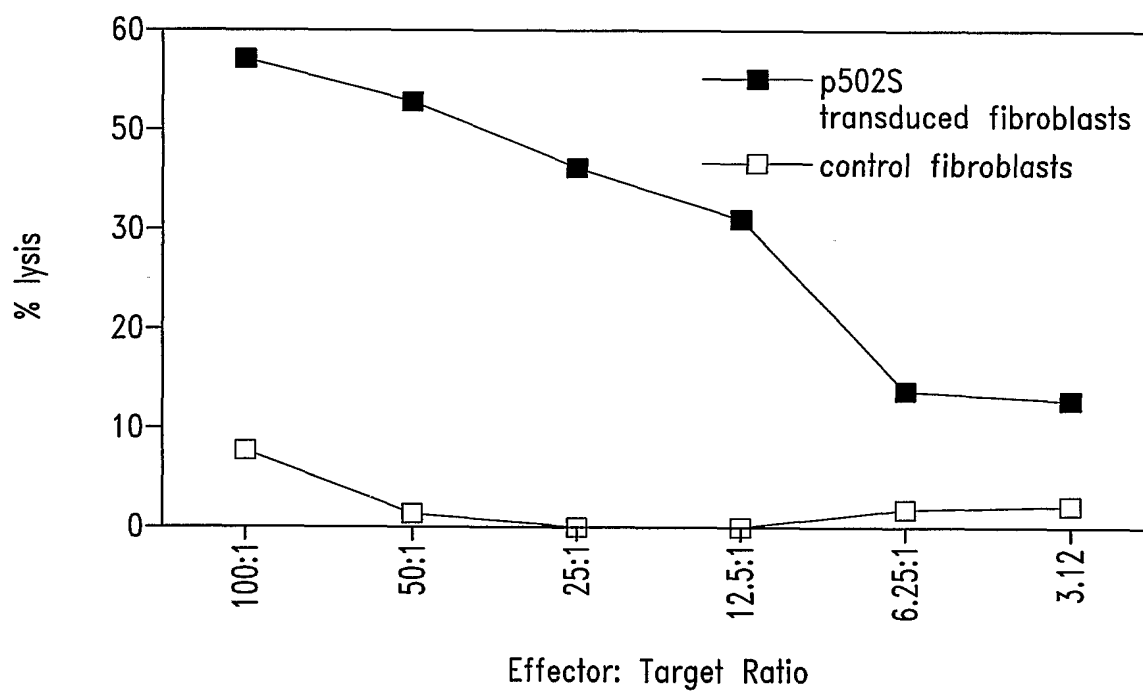
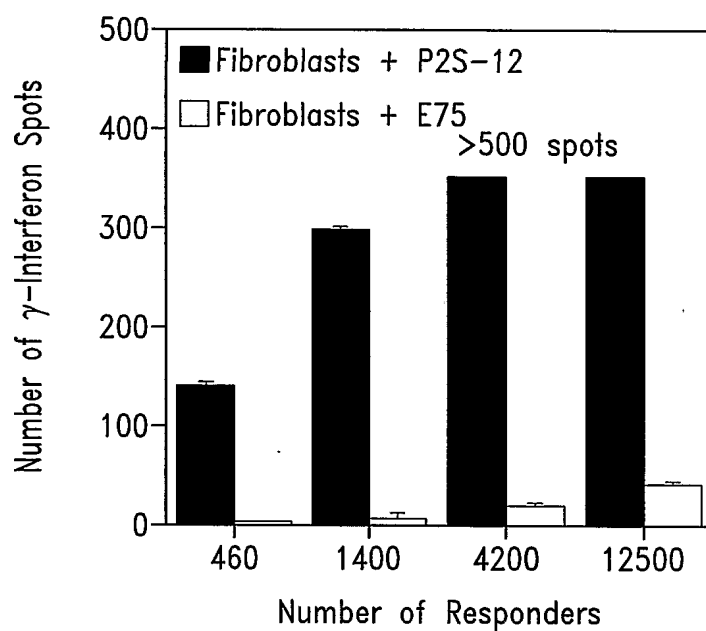
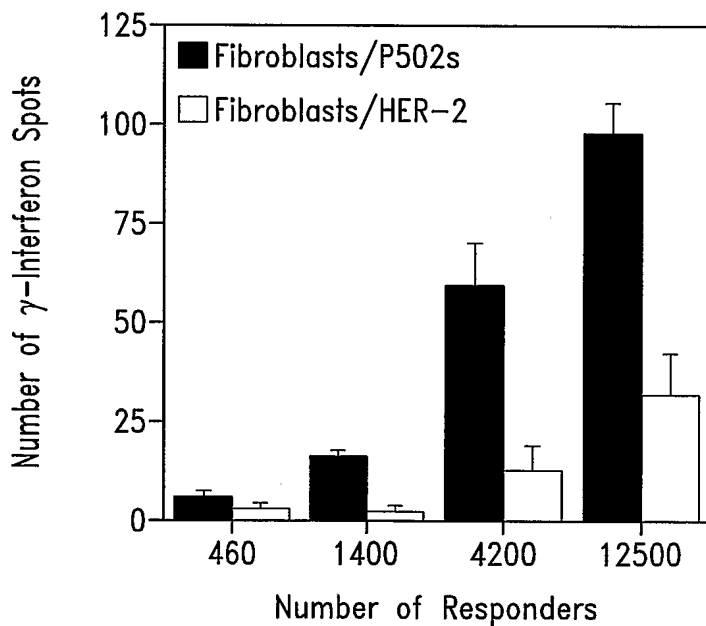


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*Fig. 1*

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*Fig. 2A**Fig. 2B*

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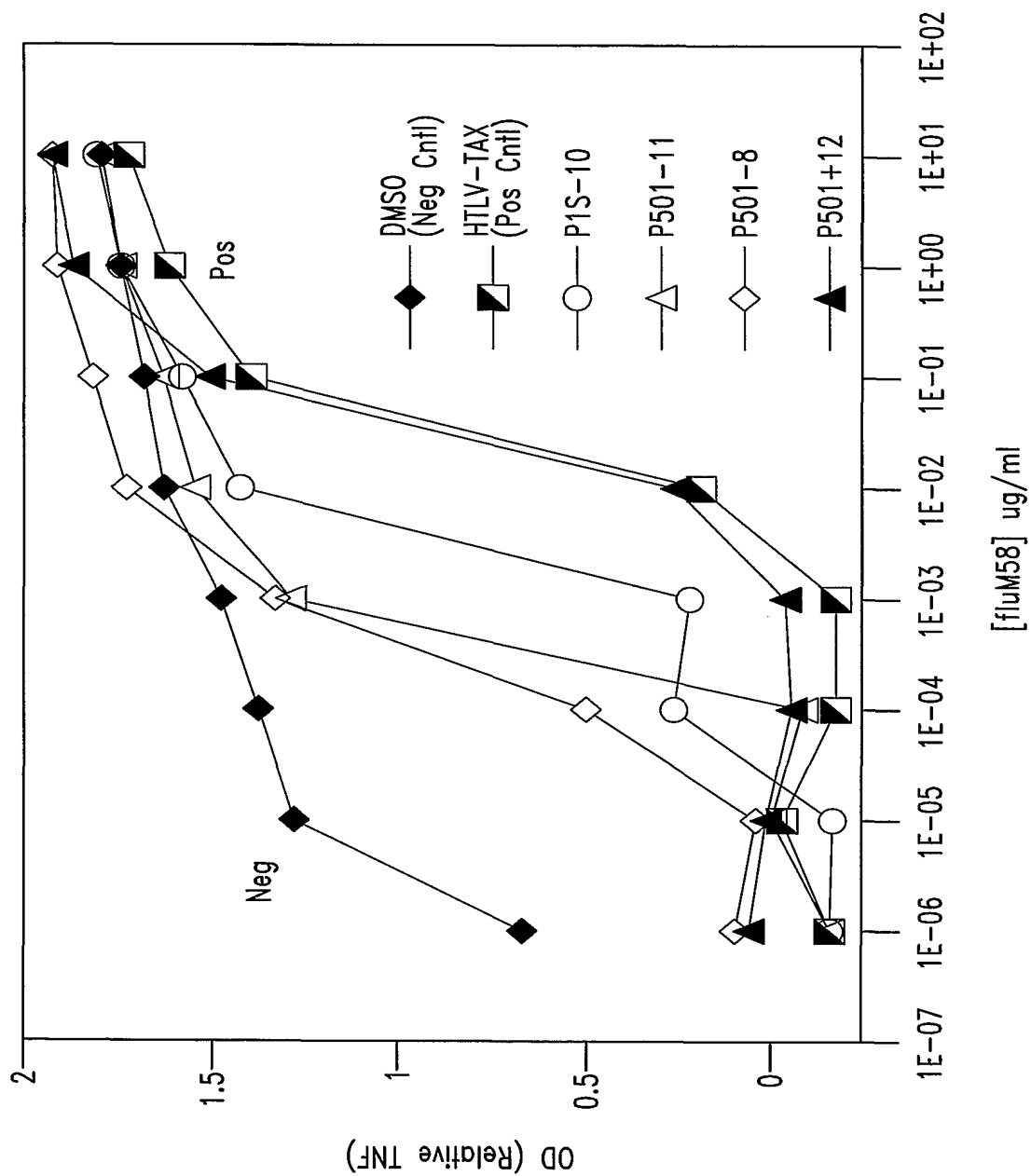
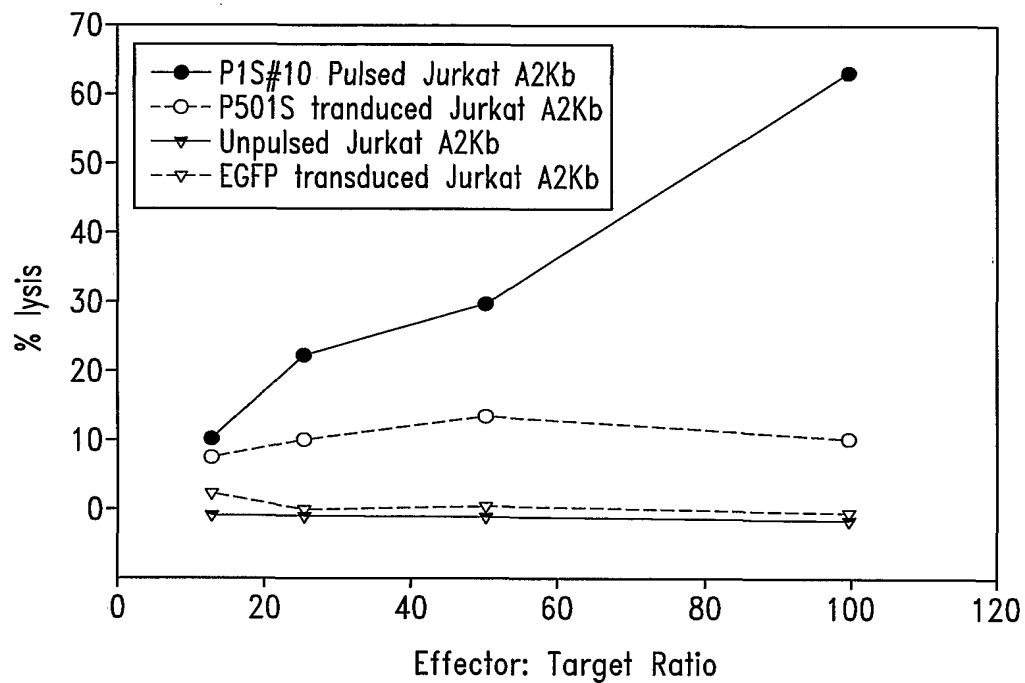
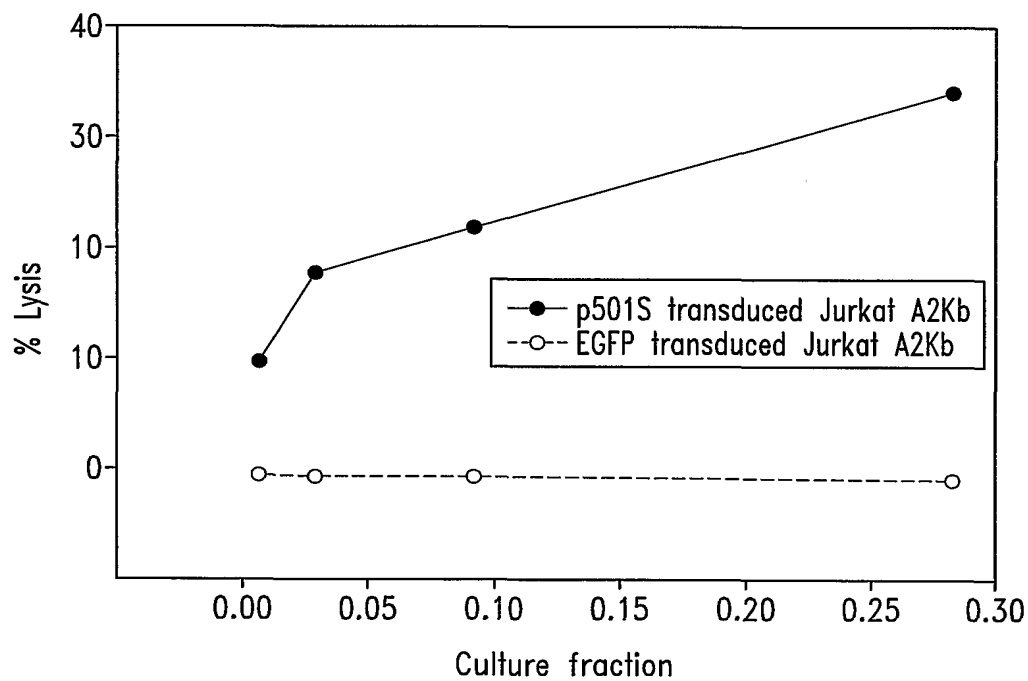


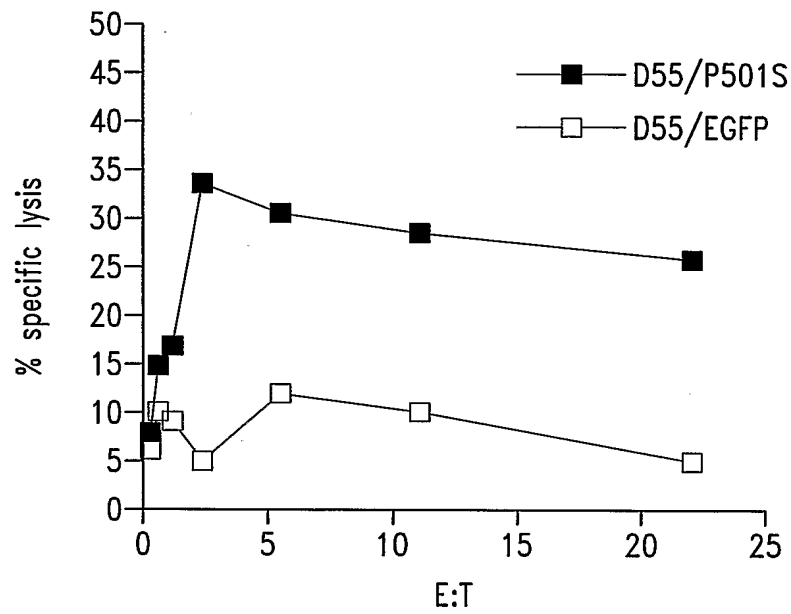
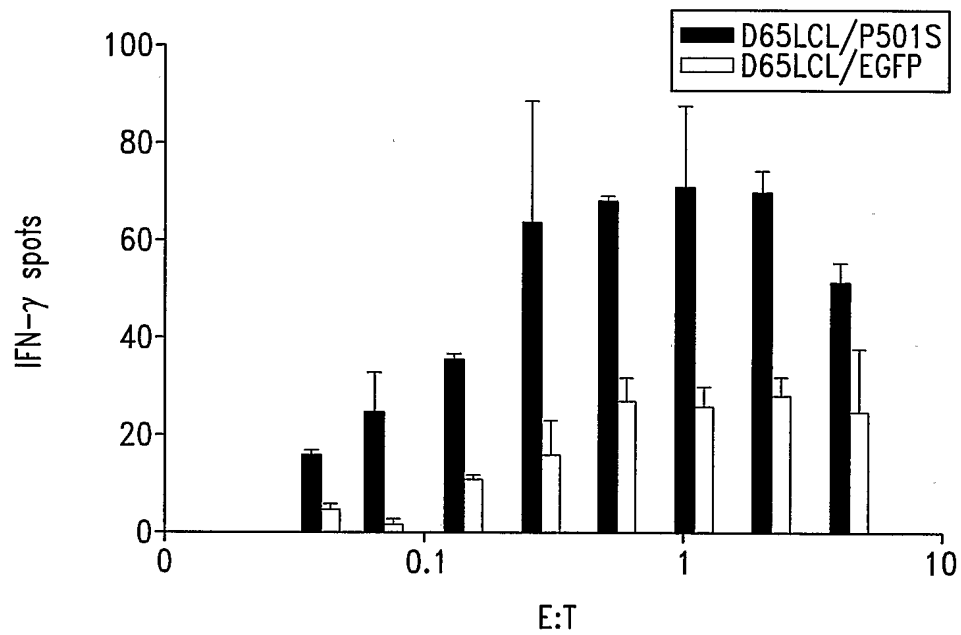
Fig. 3

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*Fig. 4**Fig. 5*

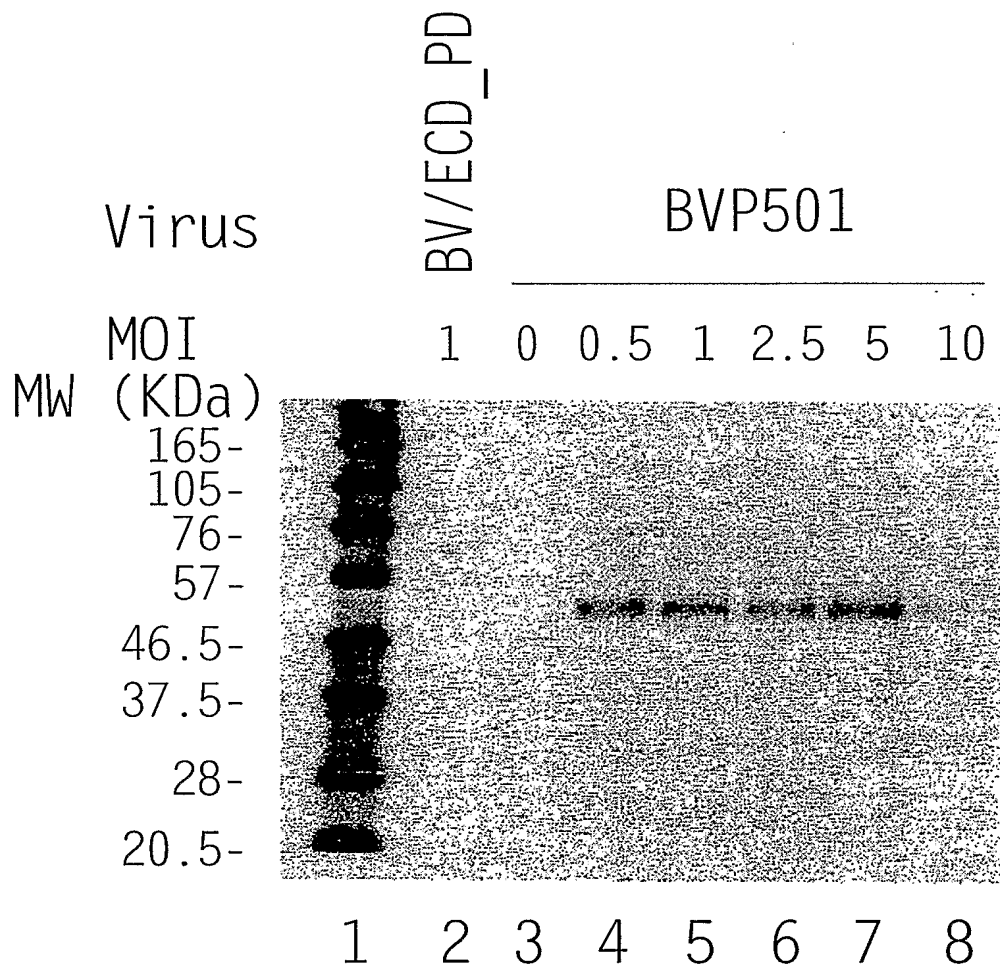


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*Fig. 6A**Fig. 6B*

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Expression of P501S  
by the Baculovirus Expression System

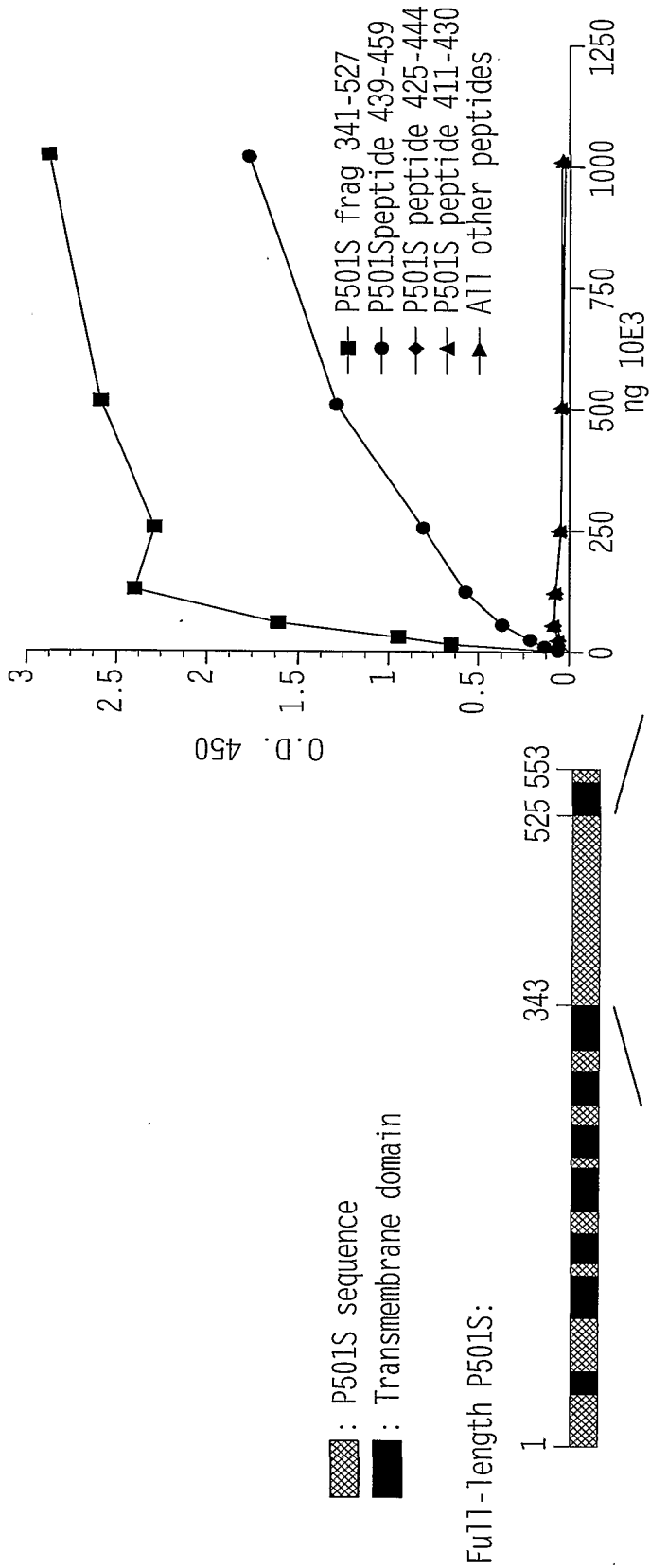


0.6 million high 5 cells in 6-well plate were infected with an unrelated control virus BV/ECD\_PD (lane2), without virus (lane3), or with recombinant baculovirus for P501 at different MOIs (lane 4-8). Cell lysates were run on SDS-PAGE under the reducing conditions and analyzed by Western blot with a monoclonal antibody against P501S (P501S-10E3-G4D3). Lane 1 is the biotinylated protein molecular weight marker (BioLabs).

*Fig. 7*

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FIGURE 8. Mapping of the epitope recognized by 10E3-G4-D3



■ : P501S sequence  
■ : Transmembrane domain

Full-length P501S:



P501S fragment used for immunization:

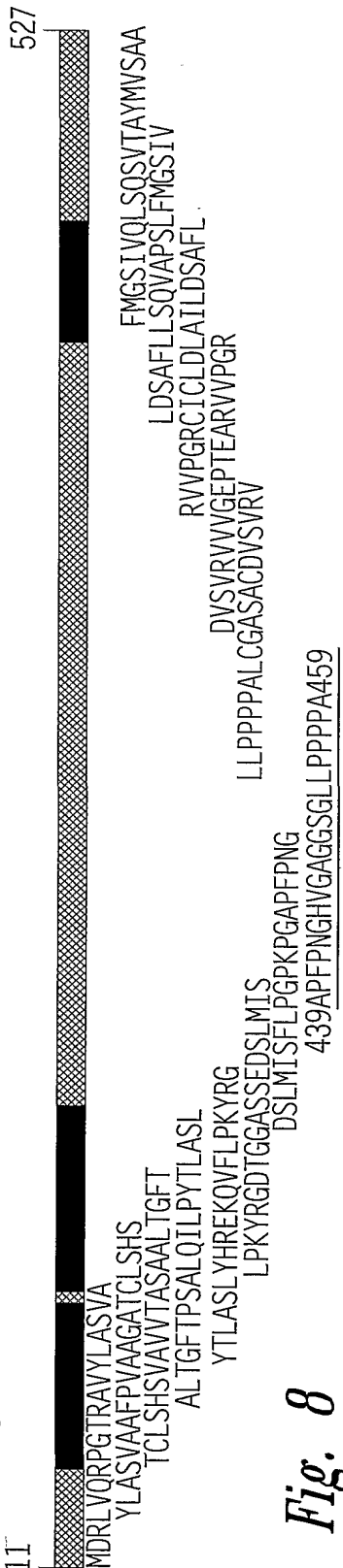


Fig. 8

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Schematic of P501S with predicted  
transmembrane, cytoplasmic, and extracellular regions

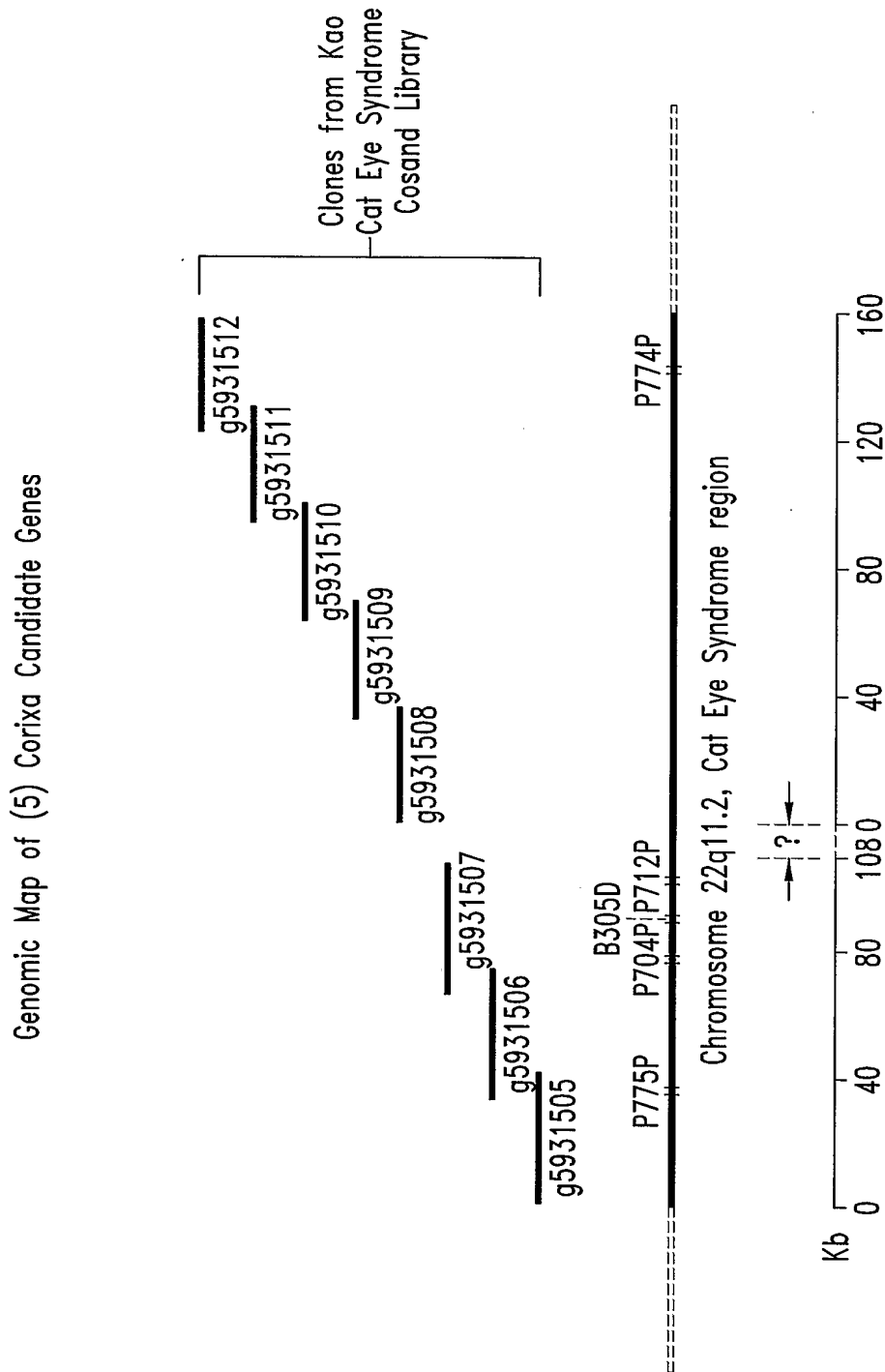
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 DHWRGRYGRRRP FIWALSLGILLSLFLIPRAGWL **AGLLCPDPRPLE** LALLILGVGLLDFCGQVCFTPL  
EALLSDLFRDPDHCRQ AYSVYAFMISLGGCLGYLLPAI **DWDTSALAPYLGTQEE**  
CLFGLLTLIFLTCVAATLLV AEEAALGPTEPAEGLSAPSLSPHCCPCRARLAFRNLGALLPRL  
HQLCCRMPRTLRR LFVAELCSWMALMTFTLFYTDF **VEGLYQGVPRAPGTEARRHYDEGVR**  
MGSLGLFLQCAISLVFSLVM DRLVQRFGTRAVYLAS VAAFPVAAGATCLSHSVAVVTA **SAA**  
LTGFTFSALQILPYTLASLY *HREKQVFLPKYRGDTGGASSEDSLMTSFLPGPKPGAPFPNGHVGAGGSGL*  
*LPPPPALCGASACDVSVRVVVGEPTEARVVPGRG* ICLDLAILDSAFLLSQVAPSLF **MGSIVQLSQS**  
VTAYMVSAAGLGLVAIYFAT *QVVFDKSDLAKYSA*

Underlined sequence: Predicted transmembrane domain; **Bold sequence**:  
 Predicted extracellular domain; *Italic sequence*: Predicted intracellular  
 domain. Sequence in bold/underlined: used generate polyclonal rabbit  
 serum

Localization of domains predicted using HMMTOP (G.E. Tusnady and I. Simon  
 (1998) Principles Governing Amino Acid Composition of Integral Membrane  
 Proteins: Applications to topology Prediction. J. Mol Biol. 283, 489-506.

*Fig. 9*

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*Fig. 10*

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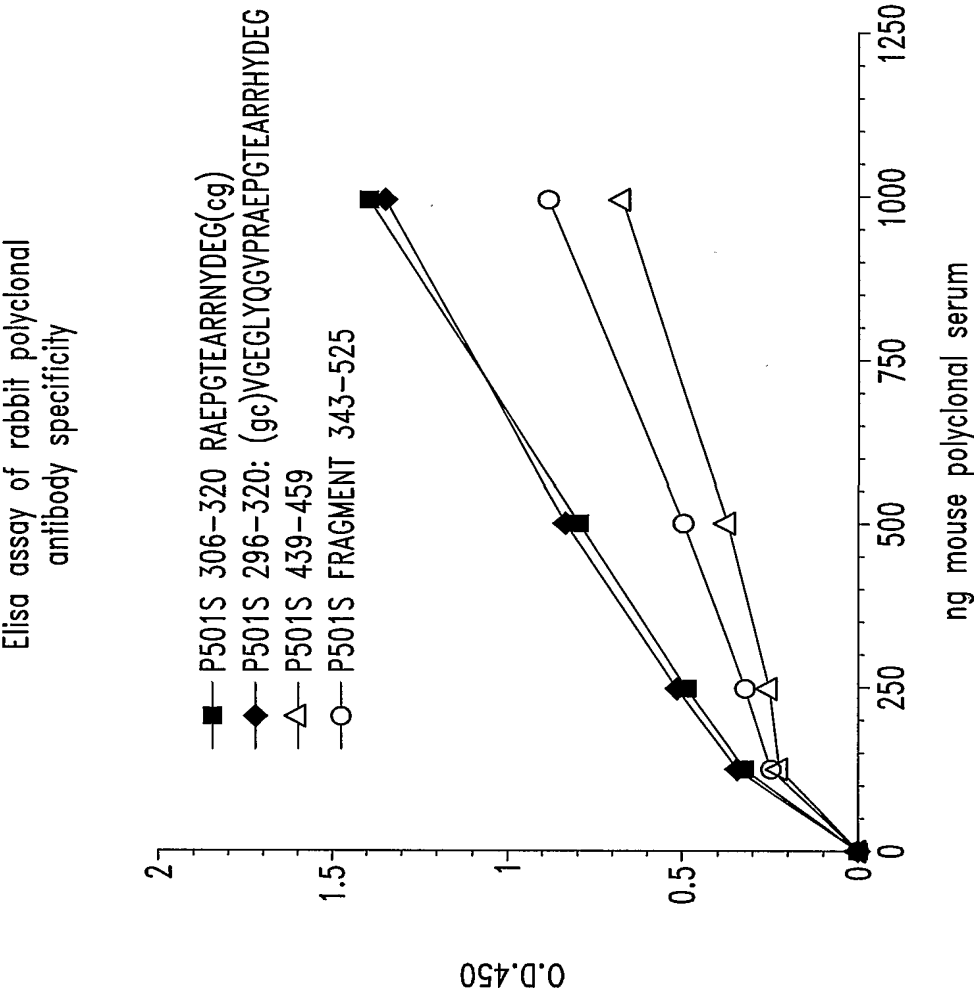


Fig. 11

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CAGCACATGG	AAGGCACCCA	GATCAACCAA	AGTGAGAAAT	GGAACTACAA	GAAACACACC	300
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CACTGGCACC	TGAAAACACC	CAACCTGGTC	ATTTCTGTGA	CCGGGGGCGC	CAAGAACTTC	480
GCCCTGAAGC	CGCGCATGCG	CAAGATCTTC	AGCCGGCTCA	TCTACATCGC	GCAGTCCAAA	540
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GATGAAGACT	TGGCAGAACA	GCTGCTGGTC	TATTCCTGTG	AAGCTTGGGG	TGGAAGCAAC	1980
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*Fig. 12A (1)*

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CTGCTCATGG	ATTTCCATTC	GGTGCCACAC	CCCCCCGAGC	TGGTCCTGTA	CTCGCTGGTC	2340
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*Fig. 12A (2)*



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*Fig. 12A (3)*

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*Fig. 12B*

## SEQUENCE LISTING

<110> Corixa Corporation  
 Xu, Jiangchun  
 Dillon, Davin C.  
 Mitcham, Jennifer L.  
 Harlocker, Susan L.  
 Yuqui, Jiang  
 Kalos, Michael D.  
 Fanger, Gary R.  
 Retter, Marc W.  
 Stolk, John A.  
 Day, Craig H.  
 Vedvick, Thomas S.  
 Carter, Darrick  
 Li, Samuel  
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<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND  
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 <223> n = A,T,C or G

<400> 4

cctcctgagt	cctactgacc	tgtgctttct	ggtgtggagt	ccagggctgc	taggaaaagg	60
aatgggcaga	cacaggtgta	tgccaatggt	tctgaaatgg	gtataatttc	gtcctctcct	120
tcggaacact	ggctgtctct	gaagacttct	cgctcagttt	cagtgaggac	acacacaaag	180
acgtgggtga	ccatgtttgt	tgtggggtgc	agagatggga	gggggtgggc	ccaccctgga	240
agagtggaca	gtgacacaag	gtggacactc	tctacagatc	actgaggata	agctggagcc	300
acaatgcatg	aggcacacac	acagcaagga	tgaonctgta	aacatagccc	acgctgtcct	360
gnngggcactg	ggaagcctan	atnaggccgt	gagcanaaag	aaggggagga	tccactagtt	420
ctanagcggc	cgccaccgcg	gtgganctcc	anccttttgt	cccttttagtg	agggttaatt	480
gcgcgccttg	ontaatcatg	gtcatanctn	tttctgtgtg	gaaattgtta	tccgctcaca	540
attccacaca	acatacganc	cggaacata	aantgtaaac	ctgggggtgcc	taatgantga	600
ctaactcaca	ttaattgcgt	tgcgctcaact	gcccgccttc	caatcnggaa	acctgtcttg	660
cncttgcat	tnatgaatcn	gccaaccccc	ggggaaaagc	gtttgcgttt	tgggcgctct	720
tccgcttcct	cnctcantta	ntccctncnc	tcggtcattc	cggctgcngc	aaaccgggtc	780
accnctcca	aaggggggtat	tccggtttcc	ccnaatccgg	ggananc		828

<210> 5  
 <211> 834  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(834)  
 <223> n = A,T,C or G

<400> 5

tttttttttt	tttttactga	tagatggaat	ttattaagct	tttcacatgt	gatagcacat	60
agttttaatt	gcatccaaag	tactaacaaa	aaactctagca	atcaagaatg	gcagcatggt	120
atttttataac	aatcaacacc	tgtggctttt	aaaattttggt	tttcataaga	taattttatac	180
tgaagtaaat	ctagccatgc	ttttaaaaaa	tgcttttaggt	cactccaagc	ttggcagtta	240
acattttggca	taaacaataa	taaaacaatc	acaattttaat	aaataacaaa	tacaacattg	300
tagggcataa	tcatatacag	tataaggaaa	aggtggtagt	gttgagtaag	cagttattag	360
aatagaatac	cttggcctct	atgcaaatat	gtctagacac	tttgattcac	tcagccctga	420
cattcagttt	tcaaagtagg	agacagggtc	tacagtatca	ttttacagtt	tccaacacat	480
tgaaaacaag	tagaaaatga	tgagttgatt	tttattaatg	cattacatcc	tcaagagtta	540
tcaccaaccc	ctcagttata	aaaaattttc	aagttatatt	agtcataata	cttgggtgtgc	600
ttatttttaaa	ttagtgctaa	atggattaag	tgaagacaac	aatggtcccc	taatgtgatt	660
gatattggtc	atttttacca	gcttctaaat	ctnaactttc	aggcttttga	actggaacat	720
tgnatnacag	tgttccanag	ttncaaccta	ctggaacatt	acagtgtgct	tgattcaaaa	780
tgttattttg	ttaaaaatta	aatttttaacc	tggtggaaaa	ataatttgaa	atna	834

<210> 6  
 <211> 818  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(818)  
 <223> n = A,T,C or G

<400> 6

4

```

tttttttttt tttttttttt aagaccctca tcaatagatg gagacataca gaaatagtca      60
aaccacatct acaaaatgcc agtatcaggc ggcggcttcg aagccaaagt gatgtttgga      120
tgtaaagtga aatattagtt ggcggatgaa gcagatagtg aggaaagtgt agccaataat      180
gacgtgaagt ccgtggaagc ctgtggctac aaaaaatgtt gagccgtaga tgccgtcgga      240
aatggtgaag ggagactcga agtactctga ggcttgtagg agggtaaaat agagaccag      300
taaaattgta ataagcagtg cttgaattat ttggtttcgg ttgttttcta ttagactatg      360
gtgagctcag gtgattgata ctctgatgc gagtaatacg gatgtgttta ggagtgggac      420
ttctagggga tttagcgggg tgatgcctgt tgggggccag tgccctccta gttggggggt      480
aggggctagg ctggagtggt aaaaggctca gaaaaatcct gcgaagaaaa aaacttctga      540
ggtaataaat aggattatcc cgtatcgaag gccttttttg acaggtgggtg tgtggtggcc      600
ttggtatgtg ctttctcgtg ttacatcgcg ccatcattgg tataatggta gtgtgttggg      660
ttantanggc ctantatgaa gaacttttgg antggaatta aatcaatngc ttggccggaa      720
gtcattanga nggctnaaaa ggccctgtta ngggtctggg ctnggtttta cccnaccat      780
ggaatncnc ccccggaacna ntgnatccct attcttaa      818

```

```

<210> 7
<211> 817
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

```

```

<400> 7
tttttttttt tttttttttt tggctctaga gggggtagag ggggtgctat agggtaaata      60
cgggccctat ttcaaagatt tttaggggaa ttaattctag gacgatgggt atgaaaactgt      120
ggtttgctcc acagatttca gagcattgac cgtagtatac ccccggtcgt gtagcgggtga      180
aagtggtttg gtttagacgt ccgggaattg catctgtttt taagcctaata gtggggacag      240
ctcatgagtg caagacgtct tgtgatgtaa ttattatacn aatgggggct tcaatcgggga      300
gtactactcg attgtcaacg tcaaggagtc gcaggtcgcc tggttctagg aataatgggg      360
gaagtatgta ggaattgaag attaatccgc cgtagtoggt gttctcctag gttcaatacc      420
attggtggcc aattgatttg atggtaaggg gagggatcgt tgaactcgtc tgttatgtaa      480
aggatncctt ngggatggga aggcnatnaa ggactangga tnaatggcgg gcangatatt      540
tcaaacngtc tctanttcct gaaacgtctg aaatgttaat aanaattaan ttngttatt      600
gaatnttnng gaaaagggct tacaggacta gaaaccaaata angaaaanta atnntaangg      660
cnttatcntn aaaggtnata accnctccta tnatcccacc caatngnatt ccccaacnncn      720
acnattggat nccccanttc canaaanggc cncceccggg tgnannccnc cttttgttcc      780
cttnantgan ggttattcnc cctnngcntt atcance      817

```

```

<210> 8
<211> 799
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G

```

```

<400> 8
catttccggg ttacttttct aaggaaagcc gagcgggaagc tgctaactgt ggaatcgggtg      60
cataaggaga actttctgct ggcacgcgct agggacaagc gggagagcga ctccgagcgt      120
ctgaagcgca cgtcccagaa ggtggacttg gcaactgaaac agctgggaca catccgcgag      180
tacgaacagc gcctgaaagt gctggagcgg gaggtccagc agtgtagccg cgtcctgggg      240
tgggtggccg angctganc cgtctctgct tgctgcccc angtgggccg ccacccctgt      300
acctgcctgg gtccaaacac tgagccctgc tggcggactt caagganaac cccacangg      360

```

```

ggatttttgcct cctanantaa ggctcatctg ggccctgggccc ccccccacctg gttggccttg 420
tctttgangt gagcccatg tccatctggg ccactgtcng gaccaccttt ngggagtgtt 480
ctcctttacaa ccacannatg cccggctcct cccggaaaacc antcccancc tgnгааaggat 540
caagnccctgn atccactnnt nctanaaccg gccnccnccg cngtggaacc cnccttntgt 600
tccttttctnt tnagggttaa tnnccgcttg gccttnccan ngtcctncnc nttttccnnt 660
gttnaaattg ttangcnccc nccnntcccn cncnncnnan cccgaccenn annttnnann 720
nccctgggggt nccnncngat tgaccenncc nccctntant tgcnttnggg nncnntgccc 780
ctttccctct nggganncg 799

```

```

<210> 9
<211> 801
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

```

```

<400> 9
acgccttgat cctcccaggc tgggactggt tctgggagga gccgggcatg ctgtgggttg 60
taangatgac actcccaaag gtggtcctga cagtgggcca gatggacatg gggctcacct 120
caaggacaag gccaccaggc gcggggggccg aagccacat gatccttact ctatgagcaa 180
aatccctgt gggggcttct ccttgaagtc cgccancagg gctcagtctt tggaccang 240
caggctcatg ggttgtnngc caactggggg ccncaacgca aaanggcncg ggcctcngn 300
caccatccc angacgggc tacactnctg gacctccnc tccaccactt tcatgcgctg 360
ttcntaccg cgnatntgtc ccactgttt cngtgccnac tccancttct nggacgtgcg 420
ctacatacgc cgggancnc nctcccgtt tgtccctatc cacgtncan caacaaattt 480
cncnctantg caccnattcc cacttttnc agntttccnc nncngcctt cttntaaaag 540
ggttgancec cggaaaatnc cccaaaggg gggggcngg tacccaactn cccctnata 600
gctgaantcc ccatnaccnn gnctcnatgg anccntoent tttaannacn ttctnaactt 660
gggaanance ctcgnccntn ccccnntaa tcccnccctg cnangnnent ccccnntcc 720
nccnntng gcntntnann cnaaaaaggc cnnnancaa tctcctnnn cctcanttcg 780
ccanccctcg aaatcgccn c
801

```

```

<210> 10
<211> 789
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

```

```

<400> 10
cagtctatnt ggccagtgtg gcagctttcc ctgtggctgc cgggtgccaca tgcctgtccc 60
acagtgtggc cgtgggtgaca gcttcagccg ccctcaccgg gttcaccttc tcagccctgc 120
agatcctgcc ctacacactg gcctccctct accaccggga gaagcagggt ttcttgccca 180
aataccgagg ggacactgga ggtgctagca gtgaggacag cctgatgacc agcttcctgc 240
caggccctaa gcctggagct cccttcctta atggacacgt ggggtgctga ggcagtggcc 300
tgctccacc tccaccggc ctctgcggg cctctgcctg tgatgtctcc gtacgtgtgg 360
tggtgggtga gccaccgan gccagggtgg ttccggggcg gggcatctgc ctggacctcg 420
ccatcctgga tagtgcttcc tgctgtccca ngtgggccca tccctgttta tgggtccat 480
tgtccagctc agccagtctg tcactgccta tatggtgtct gccgcaggcc tgggtctggt 540
cccatttact ttgtacaca ggtantattt gacaagaacg anttggcaa atactcagcg 600
ttaaaaaatt ccagcaaat tgggggtgga aggcctgcct cactgggtcc aactccccgc 660
tctgttaac cccatggggc tgccggcttg gcgcgaatt tctgttgctg ccaaantnat 720

```

```

gtggctctct gctgccacct gttgctggct gaagtgcnta cngcncanct nggggggtng 780
ggngttccc 789

```

```

<210> 11
<211> 772
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

```

```

<400> 11
cccacctac ccaaataatta gacaccaaca cagaaaagct agcaatggat tcccttctac 60
tttgttaaat aaataagtta aatatTTTaaa tgcctgtgtc tctgtgatgg caacagaagg 120
accaacaggc cacatcctga taaaaggtaa gaggggggtg gatcagcaaa aagacagtgc 180
tgtggggtga ggggacctgg ttcttgtgtg ttgcccctca ggactcttcc cctacaaata 240
actttcatat gttcaaattcc catggaggag tgtttcatcc tagaaactcc catgcaagag 300
ctacattaaa cgaagctgca ggttaagggg cttanagatg ggaaaccagg tgactgagtt 360
tattcagctc ccaaaaaccc ttctctaggt gtgtctcaac taggaggcta gctgttaacc 420
ctgagcctgg gtaatccacc tgcagagtcc ccgcattcca gtgcatggaa ccttcttggc 480
ctccctgtat aagtccagac tgaaccccc ttggaaggnc tccagtcagg cagecctana 540
aactggggaa aaaagaaaag gacgccccan ccccagctg tgcantacg cacctcaaca 600
gcacagggtg gcagcaaaaa aaccacttta ctttggcaca aacaaaaact nggggggggca 660
accccggcac ccnangggg gttaacagga ancnnggnaa cntggaacc aatnaggca 720
ggcccnccac ccnnaatntt gctgggaaat ttttccctcc ctaaatntt tc 772

```

```

<210> 12
<211> 751
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

```

```

<400> 12
gccccaatc cagctgccac accacccacg gtgactgcat tagttcggat gtcatacaaa 60
agctgattga agcaaccctc tacttttttg tcgtgagcct tttgcttggg gcaggtttca 120
ttggctgtgt tggtagcgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg 180
aagtanggtg agtctctaaa atccgtatag ttggtgaagc cacagcactt gagccctttc 240
atggtggtgt tccacacttg agtgaagtct tcctgggaac cataatcttt cttgatggca 300
ggcactacca gcaacgtcag ggaagtgtc agccattgtg gtgtacacca aggcgaccac 360
agcagctgcn acctcagcaa tgaagatgan gaggangatg aagaagaacg tcncgagggc 420
acacttgctc tcagctcttan caccatanca gccntgaaa accaananca aagaccacna 480
cnccggctgc gatgaagaaa tnaccccnog ttgacaaact tgcattggcac tggganccac 540
agtggccnna aaaatcttca aaaaggatgc cccatcnatt gaccccccaa atgccactg 600
ccaacagggg ctgccccacn cncnnaacga tganccnatt gnacaagatc tncntggtct 660
tnatnaacnt gaaccctgcn tngtggctcc tggtcaggnc cnnngcctga cttctnaann 720
aangaactcn gaagncccca cngganannc g 751

```

```

<210> 13
<211> 729
<212> DNA
<213> Homo sapien

```



<220>  
 <221> misc\_feature  
 <222> (1)...(729)  
 <223> n = A,T,C or G

<400> 13  
 gagccaggcg tccctctgcc tgcccaactca gtggcaacac ccgggagctg ttttgtcctt 60  
 tgtggancct cagcagtncc ctctttcaga actcantgcc aaganccctg aacaggagcc 120  
 accatgcagt gcttcagctt cattaagacc atgatgatcc tcttcaattt gctcatcttt 180  
 ctgtgtggtg cagccctgtt ggcagtgggc atctgggtgt caatcgatgg ggcatccttt 240  
 ctgaagatct tcggggccact gtcgtccagt gccatgcagt ttgtcaacgt gggctacttc 300  
 ctcatcgtag ccggcggttg ggtcttagct ctaggtttcc tgggctgcta tgggtgctaag 360  
 actgagagca agtgtgccct cgtgacgttc ttcttcaccc tcctcctcat cttcattgct 420  
 gaggttgcaa tgctgtggtc gccttggtgt acaccacaat ggctgagcac ttcttgacgt 480  
 tgctggtaat gcctgccatc aanaaaagat tatgggttcc caggaaanact tcaactcaagt 540  
 gttggaacac caccatgaaa gggctcaagt gctgtggctt cncccaacta tacggatttt 600  
 gaagantcac ctacttcaaa gaaaanagtg cctttccccc atttctgttg caattgacaa 660  
 acgtcccaaa cacagccaat tgaaaacctg caccacaacc aaanggggtcc ccaaccanaa 720  
 attnaaggg 729

<210> 14  
 <211> 816  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(816)  
 <223> n = A,T,C or G

<400> 14  
 tgctcttctt caaagttggt cttgttgcca taacaaccac cataggtaaa gcgggcgagcag 60  
 tgttgcgtga aggggttgta gtaccagcgc gggatgctct ccttgacagag tctgtgtgtt 120  
 ggcagggtcca cgcagtgcc tttgtcactg gggaaatgga tgcgctggag ctctgcaaaag 180  
 ccactcgtgt atttttcaca ggcagcctcg tccgacgcgt cggggcagtt ggggggtgtct 240  
 tcacactcca ggaaactgtc natgcagcag ccattgctgc agcggaaactg ggtggggtga 300  
 cangtgccag agcacactgg atggcgctt tccatgnnan gggccctgng ggaaagtccc 360  
 tgancccan anctgcctct caaangcccc acctgcaca ccccgacagg ctagaatgga 420  
 atcttcttcc cgaaaggtag ttnttctgtg tgcccaancc anccccntaa acaaactctt 480  
 gcanatctgc tccngggggg tcntantacc ancggtggaa aagaacccca ggcngcgaac 540  
 caancttggt tggatncgaa gcnataatct nctnttctgc ttggtggaca gcaccantna 600  
 ctgtnnanct ttagnccntg gtctcnttgg gttgnncttg aacctaatcn ccnntcaact 660  
 gggacaagg t aantngccnt cctttnaatt ccnancntn ccccttggtt tgggggtttt 720  
 cncnctccta cccagaaan nccgtgttcc cccccaacta ggggccnaaa ccnnttnttc 780  
 cacaaccctn cccacccac ggttcngnt ggttng 816

<210> 15  
 <211> 783  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(783)  
 <223> n = A,T,C or G

<400> 15  
 ccaaggcctg ggcaggcata nacttgaagg tacaacccca ggaaccctg gtgctgaagg 60

```

atgtggaaaa cacagattgg cgcctactgc ggggtgacac ggatgtcagg gtagagagga 120
aagacccaaa ccaggtggaa ctgtggggac tcaaggaang cacctacctg ttccagctga 180
cagtactag ctacagccac ccagaggaca cggccaacgt cacagtcact gtgctgtcca 240
ccaagcagac agaagactac tgccctgcat ccaacaangt gggtcgctgc cggggctctt 300
tcccacgctg gtactatgac cccacggagc agatctgcaa gagtttctgt tatggaggct 360
gcttgggcaa caagaacaac taccttcggg aagaagagtg cattctancc tgtcnggggtg 420
tgcaaggtgg gcctttgana ngcanctctg gggctcangc gactttcccc cagggccctt 480
ccatggaaa ggcgcattcca ntgttctctg gcacctgtca gcccacccag ttccgctgca 540
ncaatggctg ctgcactcnac antttcctng aattgtgaca acacccccca ntgcccccaa 600
ccctcccaac aaagcttccc tgttnaaaaa tacnccantt ggcttttnac aaacnccggg 660
cncctccttt ttccccnntn aacaaagggc nctngccttt gaactgoccn aaccnnggaa 720
tctnccnngg aaaaantncc cccctgggtt cctnnaance cctccnnaa anctncccc 780
ccc 783

```

```

<210> 16
<211> 801
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

```

```

<400> 16
gccccattc cagctgccac accaccacg gtgactgcat tagttcggat gtcatacaaa 60
agctgattga agcaaccctc tacttttttg tcgtgagcct tttgcttggg gcaggtttca 120
ttggctgtgt ttggtgacgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg 180
aagtaggggt agtcctcaaa atccgtatag ttggtgaagc cacagcactt gagccctttc 240
atggtgggtt tccacacttg agtgaagtct tcctgggaac cataatcttt ctgatggca 300
ggcactacca gcaacgtcag gaagtgtca gccattgtgg tgtacaccaa ggcgaccaca 360
gcagctgcaa cctcagcaat gaagatgagg aggaggatga agaagaacgt cncgagggca 420
cacttgctct ccgtcttagc accatagcag ccangaaac caagagcaaa gaccacaacg 480
cngctgcca atgaaagaaa ntaccacgt tgacaaaact catggccact ggacgacagt 540
tgccccgaan atcttcagaa aagggatgcc ccatcgattg aacacccana tgcccactgc 600
cnacagggct gcncncncn gaaagaatga gccattgaag aaggatcntc ntggctctta 660
tgaactgaaa cntgcatgg tggccctgt tcagggtctt tggcagtga ttctganaaa 720
aaggaacngc ntnagcccc ccaaangana aaacaccccc ggggtgttgcc ctgaattggc 780
ggccaaggan cctgccccn g 801

```

```

<210> 17
<211> 740
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

```

```

<400> 17
gtgagagcca ggcgtccctc tgccctgcca ctcagtggca acacccggga gctgttttgt 60
cctttgtgga ggcctcagcag ttccctcttt cagaactcac tgccaagagc cctgaacagg 120
agccaccatg cagtgtttca gcttcattaa gaccatgatg atcctcttca atttgctcat 180
ctttctgtgt ggtgcagccc tgttggcagt gggcatctgg gtgtcaatcg atggggcatc 240
ctttctgaag atcttcgggc cactgtcgtc cagtgccatg cagtttgtca acgtgggcta 300
cttcctcatc gcagccggcg ttgtggtcct tgctcttggg ttccctgggct gctatgggtg 360
taagacggag agcaagtgtg ccctcgtgac gttctctctc atcctcctcc tcactctcat 420

```

tgctgaagtt	gcagctgctg	tggtcgccctt	ggtgtacacc	acaatggctg	aaccattcct	480
gacgttgctg	gtantgcctg	ccatcaanaa	agattatggg	ttcccaggaa	aaattcactc	540
aantntggaa	caccnccatg	aaaagggctc	caattttotgn	tggtctcccc	aactataccg	600
gaattttgaa	agantcncct	tactttccaaa	aaaaaanant	tgccttttnc	cccntttctgt	660
tgcaatgaaa	acntoccaan	acngccaatn	aaaacctgcc	cnnncaaaaa	ggntcncaaa	720
caaaaaaant	nnaagggttn					740

<210> 18  
 <211> 802  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(802)  
 <223> n = A,T,C or G

<400> 18						
ccgctgggttg	cgctgggtcca	gngnagccac	gaagcacgctc	agcatacaca	gcctcaatca	60
caaggtcttc	cagctgccgc	acattacgca	gggcaagagc	ctccagcaac	actgcatatg	120
ggatacactt	tacttttagca	gccagggtga	caactgagag	gtgtcgaagc	ttattcttct	180
gagcctctgt	tagtggagga	agattccggg	cttcagctaa	gtagtccagc	tatgtcccat	240
aagcaaacac	tgtgagcagc	cggaaggtag	aggcaaagtc	actctcagcc	agctctctaa	300
cattgggcat	gtccagcagt	tctccaaaca	cgtagacacc	agnggcctcc	agcacctgat	360
ggatgagtgt	ggccagcgct	gcccccttgg	ccgacttggc	taggagcaga	aattgctcct	420
ggttctgccc	tgtcaccttc	acttccgcac	tcactcactgc	actgagtgtg	ggggacttgg	480
gctcaggatg	tccagagacg	tggttccgcc	ccctcnctta	atgacaccgn	ccanncaacc	540
gtcggctccc	gcccantgng	ttcgtcgtnc	ctgggtcagg	gtctgctggc	cnctacttgc	600
aancttcgtc	nggcccattg	aattcaccnc	acoggaactn	gtangatcca	ctnnttctat	660
aaccggncgc	caccgcnnnt	ggaactccac	tcttnttnc	tttacttgag	ggttaaggtc	720
acccttnncc	ttaccttggg	ccaaaccntn	ccntgtgtgc	anatngtnaa	tcnggncnca	780
tnccanccnc	atangaagcc	ng				802

<210> 19  
 <211> 731  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(731)  
 <223> n = A,T,C or G

<400> 19						
cnaagcttcc	aggtnacggg	ccgcnaancc	tgaccnagg	tancanaang	cagnncgcgg	60
gagcccaccg	tcacngngng	gngtctttat	nggagggggc	ggagccacat	cnctggacnt	120
cntgacccca	actcccncc	ncncantgca	gtgatgagtg	cagaactgaa	ggtnacgtgg	180
caggaaccaa	gancaaannc	tgctccnntc	caagtcggcn	nagggggcgg	ggctggccac	240
gencatccnt	cnagtgtctgn	aaagccccnn	cctgtctact	tgtttgagga	acngcnnga	300
catgcccagn	gttanataac	nggcngagag	tnantttgce	tctcccttcc	ggctgogcan	360
cngtntgtct	tagnggacat	aacctgacta	cttaactgaa	cccnnngaac	tnccnccct	420
ccactaagct	cagaacaaaa	aacttcgaca	ccactcantt	gtcacctgnc	tgctcaagta	480
aagtgtaccc	catncccaat	gtntgctnga	ngctctgncc	tgcnttangt	tcggctcctgg	540
gaagacctat	caattnaagc	tatgtttctg	actgcctctt	gctccctgna	acaancnacc	600
cnnccntcca	agggggggnc	ggcccccaat	ccccccaacc	ntnaattnan	tttancccn	660
ccccnggcc	cggcctttta	cnancntcnn	nnacngggna	aaaccnnngc	tttncccaac	720
nnaatccncc	t					731

## 10

<210> 20  
 <211> 754  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(754)  
 <223> n = A,T,C or G

<400> 20  
 tttttttttt tttttttttt taaaaacccc ctccattnaa tgnaaacttc cgaaattgtc 60  
 caaccccctc ntccaaatnn ccntttccgg gnggggggttc caaacccaan ttannnttgg 120  
 annnttaaatt aaatnttntt tggnggnnna anccnaatgt nangaaagt naaccanta 180  
 tnancctnaa tncctggaaa ccngtngntt ocaaaaatnt ttaaccctta antocctccg 240  
 aaatngttna nggaaaaccc aantttctnt aagggttggtt gaaggntnaa tnaaaanccc 300  
 nnccaattgt ttttngccac gcctgaatta attggnttcc gntgttttcc nttaaaanaa 360  
 ggnnancccc gggtantnaa tccccccnnc occaattata ccganttttt ttngaattgg 420  
 gancccnccg gaattaacgg ggnnnntccc tnttgggggg cnggnncccc ccccntcggg 480  
 ggttngggnc aggncnnaat tgtttaaggg tccgaaaaat ccctccnaga aaaaaanctc 540  
 ccaggntgag nntnggggtt ncccccccc cangggccct ctcgnanagt tgggggttgg 600  
 ggggcctggg attttntttc ccctnttncc tcccccccc ccnggganag aggttngngt 660  
 tttgntcnnc ggccccnccn aaganctttn ccganttnan ttaaattccnt gcctnggcga 720  
 agtcocnttg agggnntaaan ggccccctnn cggg 754

<210> 21  
 <211> 755  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(755)  
 <223> n = A,T,C or G

<400> 21  
 atcancccat gaccccaaac nngggaccnc tcancggnc nnncnaccnc cggecnatca 60  
 nngtnagnnc actncnntn natcacnccc cnccnactac gcccnananc cnaagcncta 120  
 nncanattnc actganngcg cgangtngan ngagaaanct nataccanag ncaccanacn 180  
 ccagctgtcc nanaangcct nnnatacngg nnnatccaat ntgnancctc cnaagtattn 240  
 nncnncanac gattttcctn anccgattac ccntncccc tanccctcc cccccaacna 300  
 cgaaggcnct ggncnaagg nngcgnccc ccgctagntc ccnncnaagt cncncncta 360  
 aactcanccn nattaacncc ttcttgagta tcaactcccc aatctcacc tactcaactc 420  
 aaaaanacn gatacaaaat aatncaagcc tgnttatnac actntgactg ggtctctatt 480  
 ttagnnggtc ntnaancntc ctaatacttc cagtctncct tcnccaattt ccnaanggt 540  
 ctttngaca gcatnttttg gttcccnntt ggggttcttan ngaattgcc ttctnngaac 600  
 gggctontct tttccttcgg ttancctggg ttcnncggc cagttattat ttcccntttt 660  
 aaattontnc cntttanttt tggcnttca aacccccggc cttgaaaacg gccccctgg 720  
 aaaagggtgt tttganaaaa tttttgtttt gttcc 755

<210> 22  
 <211> 849  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(849)

<223> n = A,T,C or G

<400> 22

tttttttttt	tttttangtg	tngtcgtgca	ggtagaggct	tactacaant	gtgaanacgt	60
acgctnngan	taangcgacc	cganttctag	gannncncct	aaaatcanac	tgtgaagatn	120
atcctgnnna	cggaanggtc	accggnngat	nntgctaggg	tgncncctcc	cannncnttn	180
cataactong	nggccctgcc	caccaccttc	ggcgggccng	ngnccgggcc	cgggtcattn	240
gnnttaacn	cactnngcna	ncggtttccn	nccccnncng	accnngcgga	tccgggggtnc	300
tctgtcttcc	cctgnagncn	anaaantggg	ccncgggnccc	ctttaccctt	nnacaagcca	360
cngccttota	nccncngccc	cccctccant	nngggggact	gccnannngct	ccgttntctng	420
nnaccccnnn	gggtncctcg	gttgtcgant	cnaccgnang	ccanggattc	cnaaggaagg	480
tgcgttnttg	gcccctaccc	ttcgctnccg	nncacccttc	ccgacnanga	nccgctcccg	540
cncnncgnng	cctcncctcg	caacacccgc	notentcngt	ncggnnnccc	ccccacccgc	600
nccctcncnc	ngncgnannc	ctccncncnc	gtctcannca	ccaccccgcc	ccgccaggcc	660
ntcanccacn	ggngacnng	nagcncnntc	gcnccgcgc	gcgnncncct	cgccncngaa	720
ctnctcnggg	ccantnncgc	tcaanccnna	cnaaacgcgc	ctgcgcggcc	cgnagcgncc	780
ncctcncnca	gtcctcccgn	cttccnacc	angnnttccn	cgaggacacn	nnaccccgcc	840
nncangcgg						849

<210> 23

<211> 872

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(872)

<223> n = A,T,C or G

<400> 23

gcgcaaaacta	tacttcgctc	gnactcgtgc	gcctcgtcnc	tcttttcctc	cgcaaccatg	60
tctgacnanc	ccgattnggc	ngatatonan	aagntcganc	agtccaaact	gantaacaca	120
cacacncnan	aganaaatcc	nctgccttcc	anagtanacn	attgaacnng	agaaccangc	180
nggcgaatcg	taatnaggcg	tgcgcgcgca	atntgtcncc	gtttattntn	ccagctcnc	240
ctnccnacc	tacntctttn	nagctgtcnn	accctngtn	cgnaccccc	naggtcggga	300
tccgggttttn	nntgaccng	cnnccctcc	cccctccat	nacganccnc	ccgcaccacc	360
nanngcncgc	nccccgnct	cttcgcncnc	ctgtcctntn	ccctgtngc	ctggcncngn	420
accgcattga	ccctcgccnn	ctnccnngaaa	ncgnanacgt	ccgggttggn	annancgctg	480
tgggnnngcg	tctgcncgc	gttctctccn	ncncttcca	ccatcttctn	tacnggggtct	540
ccnccctc	tcnnncacnc	cctgggaagc	tnctctntgc	cccccttnac	tccccctt	600
cgncgtgncc	cgccccacc	ntcatttnca	nacgntcttc	acaannncct	ggntnnctcc	660
cnancngnnc	gtcanccnag	ggaaggnggg	ggnnccnntg	nttgacgttg	ngngngangtc	720
cgaanantcc	tcnccntcan	cnctacccct	cgggcgnnct	ctcngttnc	aacttancaa	780
ntctcccccg	ngngcncntc	tcagcctcnc	cnccccnct	ctctgcantg	tnctctgctc	840
tnaccnntac	gantnttcgn	cncctcttt	cc			872

<210> 24

<211> 815

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(815)

<223> n = A,T,C or G

<400> 24

gcattgcaagc	ttgagtattc	tatagngtca	cctaaatanc	ttggcntaat	catggctcnta	60
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## 12

nctgncttcc	tgtgtcaa	gtatacna	tanatatga	tctnatntga	caaganngta	120
tcntncatta	gtaacaantg	tnntgtccat	cctgtcngan	canattccca	tnnattnn	180
cgcattnn	gcncantatn	taatngggaa	ntcnntnnn	ncaccnnca	ctatcntncc	240
gcncctgac	tggnagagat	ggatnanttc	tnntntgacc	nacatgttca	tcttggattn	300
aanancccc	cgcnngccac	cggttngnng	cnagccnntc	ccaagacctc	ctgtggaggt	360
aacctgcgtc	aganncatca	aacntgggaa	acccgcnncc	angtnnaagt	ngnnncanan	420
gatcccgctc	aggnttnacc	atcccttcnc	agcgccccct	ttngtgcctt	anagnnagc	480
gtgtccnanc	cngtcaacat	ganacgcgcc	agnccanccg	caattnggca	caatgtcgnc	540
gaaccccta	gggggantna	tncaaanc	caggattgtc	cncncangaa	atccncanc	600
ccnccctac	ccnctttgg	gacngtgacc	aantcccgga	gtncaggtcc	ggcngnctc	660
ccccaccgt	nncntgggg	gggtgaanct	cngnntcanc	cngncgaggn	ntcgnaagga	720
accggnccn	ggncgaanng	ancnntcnga	agngccnnt	cgtataaccc	cccctcncca	780
nccnacngnt	agntcccccc	cngggtncgg	aangg			815

<210> 25  
 <211> 775  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(775)  
 <223> n = A,T,C or G

<400> 25						
ccgagatgtc	tcgctccgtg	gccttagctg	tgctcgcgct	actctctctt	tctggcctgg	60
aggctatcca	gcgtactcca	aagattcagg	tttactcacg	tcattccagca	gagaatggaa	120
agtcaaat	cctgaattgc	tatgtgtctg	ggtttcatcc	atccgacatt	gaanttgact	180
tactgaagaa	tggnagagaa	attgaaaaag	tgagcattc	agacttgtct	ttcagcaagg	240
actggtcttt	ctatctcntg	tactacactg	aattcacc	cactgaaaaa	gatgagtatg	300
cctgccgtgt	gaaccatgtg	actttgtcac	agcccaagat	agttaagtgg	gatcgagaca	360
tgtaagcagn	cnncatggaa	gtttgaagat	gccgcatttg	gattggatga	attccaaatt	420
ctgcttgctt	gcntttta	antgatatgc	ntatacaccc	taccctttat	gncccaaat	480
tgtaggggtt	acatnantgt	tcnctnngga	catgatcttc	ctttataant	ccnccnttcg	540
aattgcccg	cnccngttn	ngaattgttc	cnnaaccacg	gttggtctcc	ccaggtcncc	600
tcttacggaa	gggcctgggc	cnctttncaa	ggttggggga	accnaaaatt	tcnctntgc	660
ccncccncca	cnntcttgng	nncncanttt	ggaacccttc	cnattccctt	tggcctcnna	720
nccttnncta	anaaaacttn	aaancgtngc	naaannttn	acttcccccc	ttacc	775

<210> 26  
 <211> 820  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(820)  
 <223> n = A,T,C or G

<400> 26						
anattantac	agtgtaatct	tttcccagag	gtgtgtanag	ggaacggggc	ctagaggcat	60
cccanagata	ncttatanca	acagtgcctt	gaccaagagc	tgctgggcac	atttctctgca	120
gaaaagggtg	cgggtcccat	cactcctcct	ctcccatagc	catcccagag	gggtgagtag	180
ccatcangcc	ttcgggtggga	gggagtcang	gaaacaacan	accacagagc	anacagacca	240
ntgatgacca	tgggcgggag	cgagcctctt	ccctgnaccg	gggtggcana	nganagccta	300
nctgaggggt	cacactataa	acgttaacga	ccnagatnan	cacctgcttc	aagtgcaccc	360
ttcctacctg	acnaccagng	accnnnaact	gcngcctggg	gacagcnctg	ggancagcta	420
acnnagcact	cacctgcccc	cccatggccg	tnccgntccc	tggtcctgnc	aagggaagct	480

## 13

```

ccctgttgga attncgggga naccaaggga nccccctcct ccantctgtga aggaaaaaann 540
gatggaatttt tccccttcog gccnntcccc tcttctctta cagcggccct nntactcntc 600
tccctctnttt ntccctgnnc acccttttnacc ccnnnatttc ccttnattga tcggannctn 660
ganattccac tnnccgctnc cntcnatcng naanacnaaa nactntctna cccnggggat 720
gggnncctog ntcctcctct ctttttctct accnccnntt ctttgcctct ccttngatca 780
tccaacntc gntggcctn ccccccnntt tcttttcccc 820

```

```

<210> 27
<211> 818
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

```

```

<400> 27
tctgggtgat ggcctcttcc tcctcagggg cctctgactg ctctgggcca aagaatctct 60
tgtttcttct ccgagcccca ggcagcgggt attcagccct gcccaacctg attctgatga 120
ctgcggatgc tgtgacggac ccaaggggca aataggggtcc cagggtccag ggaggggccc 180
ctgctgagca ctcccgcccc tcaccctgcc cagcccttgc catgagctct gggtgggtc 240
tccgcctcca gggttctgct ctccangca ngccancaa tggtcgtggg ccacactggc 300
ttcttctctgc ccctccctg gctctganc tctgtcttcc tgtcctgtgc angcnccttg 360
gatctcagtt tccctcncctc anngaactct gtttctgann tcttcantta actntgantt 420
tatnaccnan tggncctgtnc tgtcnnactt taatgggccc gaccggctaa tccctccctc 480
nctcccttcc anttccnnna accngcttnc cntctcttcc ccctancccg ccnggggaanc 540
ctcctttgcc ctnaccangg gccnnnaccg cccntnnctn gggggggcng gttnctncnc 600
ctgntnnccc cncctcncnt tncctcgtcc cnnccnccgc nngcannttc ncngtcccn 660
tnnctcttcc ngntcgnaa ngntcncntn tnnnnngncc ngntnntncc tccctctcnc 720
cnnntgnang tnnntnnnnc ncngnncccc nnnnnnnnnn nggnntnnn tctnccngc 780
cccnncccc ngnattaagg cctccnntct ccggccnc 818

```

```

<210> 28
<211> 731
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

```

```

<400> 28
aggaagggcg gagggatatt gtangggatt gagggatagg agnataang ggaggggtgtg 60
tcccaacatg anggtgnngt tctcttttga angagggttg ngtttttann ccnggtgggt 120
gattnaaccc cattgtatgg agnnaaagg ttttagggat ttttcggctc ttatcagtat 180
ntanattcct gtnaatcgga aaatnatntt tcnncnggaa aatnttgctc ccatccgnaa 240
attnctcccc ggtagtgcatt nttngggggn cngccangtt tcccaggctg ctanaatcgt 300
actaaagntt naagtgggan tncaaatgaa aacctnncac agagnatccn taccggactg 360
tnnnttncct tcgccctntg actctgcngg agcccaatac ccngngnat gtcncccn 420
nnngcgcnc tgaannnnnc tcngggctnn gancatcang ggggttctga tcaaaagcnn 480
cgtttctcat naaggcactt tngcctcatc caaccnctng cctcnncca tttngccgtc 540
nggttccct acgctnntng cncctnnntn ganattttnc ccgcctnggg naancctcct 600
gnaatgggta gggnccttntc ttttnaccnn gnggtntact aatcnnctnc acgcntnctt 660
tctcnacccc cccctttttt caatccanc ggcnaatggg gtctccccnn cgangggggg 720
nncccannc c

```

14

<210> 29  
 <211> 822  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(822)  
 <223> n = A,T,C or G

<400> 29

actagtccag	tgtggtggaa	ttccattgtg	ttggggncnc	ttctatgant	antnttagat	60
cgctcanacc	tcacancctc	ccnacnangc	ctataangaa	nannaataga	nctgtncnnt	120
atntntacnc	tcatanncct	cnnaacccac	tccctcttaa	ccntactgt	gcctatngcn	180
tnnctantct	ntgccgcctn	cnanccaccn	gtggggccnac	cncnngnatt	ctcnatctcc	240
tcnccatntn	gcctananta	ngtncatacc	ctatacctac	nccaatgcta	nnnctaancn	300
tccatnantt	annntaacta	ccactgaant	ngactttcnc	atnanctcct	aatttgaatc	360
tactctgact	cccacngcct	annnattagc	ancntcccc	nacnatntct	caaccaaadc	420
ntcaacaacc	tatctanctg	ttcnccaacc	nttncctccg	atccccnnac	aacccccctc	480
ccaaatacc	nccacctgac	ncctaaccn	caccatcccg	gcaagccnan	ggncatttan	540
ccactggaat	cacnatngga	naaaaaaaaa	ccnaactctc	tanncncnat	ctccctaana	600
aatnctcctn	naatttactn	ncantnccat	caanccacn	tgaaacnnaa	ccccgtttt	660
tanatccctt	ctttcgaaaa	ccnacccttt	annncccaac	ctttngggcc	ccccnctnc	720
ccnaatgaag	gncncccaat	cnangaaacg	ncntgaaaa	ancnaggcna	anannntccg	780
canatcctat	cccttanttn	ggggncctt	nccngggcc	cc		822

<210> 30  
 <211> 787  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(787)  
 <223> n = A,T,C or G

<400> 30

cgggcgcctg	ctctggcaca	tgccctcctga	atggcatcaa	aagtgatgga	ctgcccattg	60
ctagagaaga	ccttctctcc	tactgtcatt	atggagccct	gcagactgag	ggctcccctt	120
gtctgcagga	tttgatgtct	gaagtctgtg	agtgtggctt	ggagctcctc	atctacatna	180
gctggaagcc	ctggagggcc	tctctcgcca	gcctccccct	tctctccacg	ctctccangg	240
acaccagggg	ctccaggcag	ccattatttc	ccagnangac	atgggtgttc	tccacgcgga	300
cccatggggc	ctgnaaggcc	aggggtctcct	ttgacaccat	ctctcccgctc	ctgcctggca	360
ggcgcgtggga	tccactantt	ctanaacggg	cgccaccncc	gtgggagctc	cagcttttgt	420
tccntttaat	gaaggttaat	tgcnccgttg	gcgtaatcat	nggtcanaac	tntttcctgt	480
gtgaaattgt	ttntccctc	ncnattoonc	ncnacatacn	aacccgggan	cataaagtgt	540
taaagcctgg	gggtngcctn	nngaataaac	tnaactcaat	taattgcgtt	ggctcatggc	600
ccgctttccn	ttcnggaaaa	ctgtontccc	ctgcnttnnt	gaatcgcca	ccccccnggg	660
aaaagcggtt	tgcnttttng	ggggntccct	ccncttcccc	cctcnctaan	ccctnccgct	720
cggtcgttnc	nggtngcggg	gaangggnat	nnnctcccnc	naagggggng	agnnnngtat	780
ccccaaa						787

<210> 31  
 <211> 799  
 <212> DNA  
 <213> Homo sapien

<220>



15

<221> misc\_feature  
 <222> (1)...(799)  
 <223> n = A,T,C or G

<400> 31  
 tttttttttt ttttttttggc gatgctactg ttttaattgca ggaggtgggg gtgtgtgtac 60  
 catgtaccag ggctattaga agcaagaagg aaggaggagg ggcagagcgc cctgctgagc 120  
 aacaaaggac tcctgcagcc ttctctgtct gtctcttggc gcaggcacat ggggaggcct 180  
 cccgcagggt gggggccacc agtccagggt tgggagcact acanggggtg ggagtgggtg 240  
 gtggctggtt cnaatggcct gncacanatc cctacgattc ttgacacctg gatttcacca 300  
 ggggaccttc tgttctccca nggnaacttc nttnatctcn aaagaacaca actgtttctt 360  
 cngcanttct ggctgttcat ggaaagcaca ggtgtccnat ttnggctggg acttggtaca 420  
 tatggttcgg gcccacctct cccntcnaan aagtaattca ccccccccn cctctntttg 480  
 cctgggccct taantaccca caccggaact canttanitta ttcattcttng gntgggcttg 540  
 ntnatncn cctgaangcg ccaagttaga aggccacgcc gtnccnctc cccatagnan 600  
 nttttnnct canctaatgc cccccnggc aacnatccaa tcccccccn tgggggcccc 660  
 agcccanggc ccccgntctg ggnnncngn cncgnantcc ccaggntctc ccantcngnc 720  
 ccnnngcncc cccgcacgca gaacanaagg ntngagcnc cgcannnnnn nggttnncnac 780  
 ctcgcccccc ccnncgng 799

<210> 32  
 <211> 789  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(789)  
 <223> n = A,T,C or G

<400> 32  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60  
 ttttnccnag ggcaggttta ttgacaacct cncgggacac aancaggctg gggacaggac 120  
 ggcaacaggc tccggcggcg gcggcgggc cctacctgc ggtaccaaata ntgcagcctc 180  
 cgctcccgt tgaatntcct ctgcagctgc aggatgcctt aaaaacagggc ctgggcctn 240  
 ggtgggcacc ctgggatttn aatttccacg ggcacaatgc ggtcgcancc cctcaccacc 300  
 nattaggaat agtggtnnta cccnccnccg ttggcncact ccccntggaa accacttntc 360  
 gcggctccgg catctggtct taaaccttgc aaacnctggg gccctctttt tggttantnt 420  
 nccngccaca atcatnactc agactggcnc gggctggccc caaaaaancn ccccaaaacc 480  
 ggnccatgtc ttncgggggt tgcctgcnatn tncatcacct cccgggcncn ncaggncaac 540  
 ccaaaagtgc ttngggcccn caaaaaanct ccggggggnc ccagtttcaa caaagtcac 600  
 ccccttggcc cccaaatcct ccccccgnnt nctgggtttg ggaaccacg cctctnctt 660  
 tggnnggcaa gntggntccc ccttcggggc cccggtgggc ccnctctaa ngaaaaacnc 720  
 ntctnnnca ccatcccccc nngnnacgnc tancaangna tccctttttt tanaaacggg 780  
 cccccnccg 789

<210> 33  
 <211> 793  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(793)  
 <223> n = A,T,C or G

<400> 33  
 gacagaacat gttggatggt ggagcacctt totatacgac ttacaggaca gcagatgggg 60

## 16

aattcatggc	tgttgagca	atanaacccc	agttctacga	gctgctgac	aaaggacttg	120
gactaaagtc	tgatgaactt	cccaatcaga	tgagcatgga	tgattggcca	gaaatgaana	180
agaagtttgc	agatgtatth	gcaaagaaga	cgaaggcaga	gtggtgtcaa	atctttgacg	240
gcacagatgc	ctgtgtgact	ccggttctga	cttttgagga	ggttgttcat	catgatcaca	300
acaangaacg	gggctcgttt	atcaccantg	aggagcagga	cgtgagcccc	cgccctgcac	360
ctctgctggt	aaacacccca	gccatccctt	ctttcaaaaag	ggatccacta	cttctagagc	420
ggncgccacc	gcggtggagc	tccagctttt	gttcccttta	gtgagggtta	attgcgcgct	480
tggcgtaatc	atggtcatan	ctgtttcctg	tgtgaaattg	ttatccgctc	acaattccac	540
acaacatacg	anocggaagc	atnaaatttt	aaagcctggg	ggtngcctaa	tgantgaact	600
nactcacatt	aattggcttt	gcgctcactg	cccgttttcc	agtccggaaa	acctgtcctt	660
gccagctgcc	nttaatgaat	cnggccaccc	cccggggaaa	aggcngtttg	cttnttgggg	720
cgcncttccc	gctttctcgc	ttcctgaant	ccttcccccc	ggtctttcgg	cttgcggcna	780
acggtatcna	cct					793

<210> 34  
 <211> 756  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)... (756)  
 <223> n = A,T,C or G

<400> 34						
gccgcgaccg	gcatgtacga	gcaactcaag	ggcgagtggga	accgtaaaag	ccccaatctt	60
ancaagtgcg	gggaanagct	gggtcgactc	aagctagtto	ttctggagct	caacttcttg	120
ccaaccacag	ggaccaagct	gaccaaacag	cagctaattc	tggcccgtga	catactggag	180
atcggggccc	aattggagcat	cctacgcaan	gacatccctt	ccttcgagcg	ctacatggcc	240
cagctcaaat	gctactactt	tgattacaan	gagcagctcc	ccgagtcagc	ctatatgcac	300
cagctcttgg	gcctcaacct	cctcttctctg	ctgtcccaga	accgggtggc	tgantnccac	360
acgganttgg	ancggctgcc	tgcccanga	catacanacc	aatgtctaca	tcnaccacca	420
gtgtcctgga	gcaatactga	tgganggcag	ctaccncaaa	gtnttcctgg	ccnagggtaa	480
catccccgcg	cgagagctac	accttcttca	ttgacatcct	gctcgacact	atcaggggatg	540
aaaatcgcn	gggtgtctcca	gaaaggctnc	aanaanatcc	ttttcncctga	aggcccccg	600
atncnctagt	nctagaatcg	gcccggccatc	gcgggtgganc	ctccaacctt	tcgttnccct	660
ttactgaggg	ttnattgccc	cccttggcgt	tatcatggtc	acnccngttn	cctgtgttga	720
aattnttaac	ccccacaaat	tccacgccna	cattng			756

<210> 35  
 <211> 834  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)... (834)  
 <223> n = A,T,C or G

<400> 35						
ggggatctct	anactnacct	gnatgcatgg	ttgtcgggtg	ggtcgctgtc	gatgaanatg	60
aacaggatct	tgcccttgaa	gctctcggct	gctgtnttta	agttgctcag	tctgccgtca	120
tagtcagaca	cncctcttgg	caaaaaacan	caggatntga	gtcttgattt	cacctccaat	180
aatcttcngg	gctgtctgct	cggtgaactc	gatgacnang	ggcagctggg	tgtgtntgat	240
aaantccanc	angttctcct	tggtgacctc	cccttcaaa	ttgttccggc	cttcatcaaa	300
cttctnnaan	angannancc	canctttgtc	gagctggnat	ttgganaaca	cgctactggt	360
ggaaactgat	cccaaattgg	atgtcatoca	tcgcctctgc	tgccctgcaa	aaacttgctt	420
ggcncaaate	cgactccccn	tccttgaaag	aagccnatca	cacccccctc	cctggactcc	480

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nncaangact	ctnccgctnc	ccntccnng	caggggttggt	ggcannccgg	gccntgccc	540
ttcttcagcc	agttcacnat	nttcacagc	ccctctgcca	gctgttntat	tccttggggg	600
ggaanccgtc	tctcccttcc	tgaannaact	ttgaccgtng	gaatagccgc	gcntcnccnt	660
acntnctggg	ccgggttcaa	antccctccn	ttgncnntcn	cctcggggcca	ttctggattt	720
nccnaacttt	ttccttcccc	cncctcncgg	ngtttggntt	tttcatnggg	ccccactct	780
gctnttgccc	antcccttgg	gggcntntan	cncctcctnt	ggtccctng	ggcc	834

<210> 36  
 <211> 814  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(814)  
 <223> n = A,T,C or G

<400> 36						
cggnccgttt	ccngccgcgc	cccgtttcca	tgacnaaggg	tcccttcang	ttaaatacnn	60
cctagnaaac	attaatgggt	tgctctacta	atacatcata	cnaaccagta	agcctgcccc	120
naacgccaac	tcaggccatt	cctaccaaag	gaagaaaggg	tggtctctcc	acccctgtta	180
ggaaaggcct	gccttgtaag	acaccacaat	ncggctgaat	ctnaagtctt	gtgttttact	240
aatggaaaaa	aaaaataaac	aanaggtttt	gttctcatgg	ctgcccaccg	cagcctggca	300
ctaaaacanc	ccagcgctca	cttctgcttg	ganaaatatt	ctttgctctt	ttggacatca	360
ggcttgatgg	tatcactgcc	acntttccac	ccagctgggc	ncccttcccc	catntttgtc	420
antganctgg	aaggcctgaa	ncttagtctc	caaaagtctc	ngcccacaag	accggccacc	480
agggggangtc	ntttncagtg	gatctgcca	anantaccn	tatcatcnnt	gaataaaaag	540
gcccctgaac	ganatgcttc	cancancctt	taagaccat	aatcctngaa	ccatggtgcc	600
cttccggctc	gatccnaaag	gaatgttctt	gggtcccant	ccctcctttg	ttnccttacgt	660
tgtnttggac	ccntgctngn	atnaccaan	tganatcccc	ngaagcacc	tnccctggc	720
atttganttt	cntaaattct	ctgccctacn	nctgaaagca	cnattccctn	ggcncnnaan	780
gngaactca	agaaggtctn	ngaaaaacca	cncn			814

<210> 37  
 <211> 760  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(760)  
 <223> n = A,T,C or G

<400> 37						
gcatgctgct	cttcctcaaa	gttgcttcttg	ttgccataac	aaccaccata	ggtaaagcgg	60
gcgcagtgtt	cgctgaagg	gttgtagtac	cagcgcgga	tgctctcctt	gcagagtcct	120
gtgtctggca	ggtccacgca	atgccctttg	tacttgggga	aatggatgcg	ctggagctcg	180
tcaanccac	tcgtgtattt	ttcacangca	gcctcctccg	aagcctccgg	gcagttgggg	240
gtgtcgtcac	actccactaa	actgtcgatn	cancagccca	ttgctgcagc	ggaactgggt	300
gggctgacag	gtgccagaac	acactggatn	ggcctttcca	tggaagggcc	tgggggaaat	360
cncctnancc	caaactgcct	ctcaaaggcc	accttgca	ccccgacag	ctagaaatgc	420
actcttcttc	ccaaaggtag	ttgttcttgt	tgcccaagca	ncctccanca	aacaaaaanc	480
ttgcaaaatc	tgctccgtgg	gggtcatnnn	taccanggtt	ggggaaanaa	acccggcngn	540
ganccnctt	gtttgaatgc	naaggnaata	atcctcctgt	cttgcttggg	tggaanagca	600
caattgaact	gttaacnttg	ggccnggttc	cnctnggggtg	gtctgaaact	aatcaccgtc	660
actggaaaaa	ggtangtgcc	ttccttgaat	tcccaaantt	cccctngntt	tgggtntttt	720
ctcctctncc	ctaaaaatcg	tnttcccccc	centanggcg			760

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<210> 38  
 <211> 724  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(724)  
 <223> n = A,T,C or G

<400> 38  
 tttttttttt tttttttttt tttttttttt ttttttaaaa cccctcccat tgaatgaaaa 60  
 ctccnaaat tgtccaaccc cctcnnccaa atnnccattt cggggggggg gttccaaacc 120  
 caaatattt ttgganttta aattaaatnt tnatnngggg aanaanccaa atgtnaagaa 180  
 aatttaaccc attatnaact taaatncctn gaaacccttg gnttccaaaa atttttaacc 240  
 cttaaattccc tccgaaattg ntaanggaaa accaaattcn cctaaggctn tttgaagggtt 300  
 ngatttaaac ccccttnant tnttttnacc cnngnctnaa ntatttngnt tccggtgttt 360  
 tcctnttaan cntnggtaac tcccgnataat gaannnccct aanccaatta aaccgaattt 420  
 tttttgaatt ggaaattccn ngggaattna cgggggtttt tcccnthttg gggccatncc 480  
 cccnctttcg ggggtttggg ntaggttgaa tttttnnang nccccaaaaa ncccccaana 540  
 aaaaaactcc caagnnttaa ttngaattnc ccccttccca ggcctttttg gaaaggnggg 600  
 tttntggggg ccngggantt cnttcccccn ttncncccc cccccnggt aaanggttat 660  
 ngnntttggt ttttgggccc cttnanggac ctcccgatn gaaattaaat ccccggnccg 720  
 gccg 724

<210> 39  
 <211> 751  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(751)  
 <223> n = A,T,C or G

<400> 39  
 tttttttttt tttttctttg ctcacattta atttttattt tgattttttt taatgctgca 60  
 caacacaata tttatttcat ttgtttcttt tatttcatth tatttgtttg ctgctgctgt 120  
 tttattttatt tttactgaaa gtgagaggga acttttggg ccttttttcc tttttctgta 180  
 ggccgcctta agctttctaa atttggaaaca tctaagcaag ctgaanggaa aaggggggtt 240  
 cgcaaaatca ctcgggggaa nggaaagggtt gctttgttaa tcatgcccta tgggtgggtga 300  
 ttaactgctt gtacaattac ntttacttt taattaattg tgctnaangc ttttaattana 360  
 ctgggggggt ccttccccan accaaccnccn ctgacaaaaa gtgccngccc tcaaatnatg 420  
 tcccggcnnt cnttgaaaca cacngcngaa ngttctcatt ntccccnccn caggtnaaaa 480  
 tgaagggtta ccatntttta cncacctcc acntggcnnc gcctgaatcc tcnaaaancn 540  
 cctcaanccn aattnctnng ccccggtcnc gontnngtcc cncgggggt ccgggaantn 600  
 cccccccnga annnntnnc naacnaaatt ccgaaaatat tcccnntcnc tcaattcccc 660  
 cnnagactnt cctcnncnan cncaattttc ttttnntcac gaacnccgnc cnnaaatgn 720  
 nnnnccnctc cncnngtccn naatcnccan c 751

<210> 40  
 <211> 753  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(753)

<223> n = A,T,C or G

<400> 40

gtggtat	ctgtaagatc	aggtgttcct	ccctcgtagg	tttagaggaa	acaccctcat	60
agatgaaaac	ccccccgaga	cagcagcact	gcaactgcca	agcagccggg	gtaggagggg	120
cgccctatgc	acagctgggc	ccttgagaca	gcagggttc	gatgtcaggc	tcgatgtcaa	180
tggctctggaa	gcggcggctg	tacctgcgta	ggggcacacc	gtcagggccc	accaggaaact	240
tctcaaagt	ccaggcaacn	tcgttgcgac	acaccggaga	ccagggtgatn	agcttgggg	300
cggtcataaan	cgcggtggcg	tcgtcgctgg	gagctggcag	ggcctcccgc	aggaaggcna	360
ataaaaggty	cgcccccgca	ccgttcanc	cgcacttctc	naanaccatg	angttgggct	420
cnaaccacc	accannccgg	acttccttga	nggaattccc	aaatctcttc	gntcttgggc	480
ttctnctgat	gccctanctg	gttgcccn	atgccaanca	nccccaancc	ccggggtcct	540
aaanacccn	cctcctcntt	tcactctggg	tnttntcccc	ggaccttggt	tcctctcaag	600
ggancccata	tctcnaccan	tactcaccnt	nccccccnt	gnnaccanc	cttctanngn	660
ttccncccg	ncctctggcc	cntcaaan	gcttncaacna	cctgggtctg	ccttcccccc	720
tnccctatct	gnaccccn	tttgtctcan	tnt			753

<210> 41

<211> 341

<212> DNA

<213> Homo sapien

<400> 41

actatatcca	tcacaacaga	catgcttcat	cccatagact	tcttgacata	gcttcaaatg	60
agtgaaccca	tccttgattt	atatacatat	atgttctcag	tattttggga	gcctttccac	120
ttctttaaac	cttgttcatt	atgaacactg	aaaataggaa	tttgtgaaga	gttaaaaagt	180
tatagcttgt	ttacgtagta	agtttttgaa	gtctacattc	aatccagaca	cttagttgag	240
tggttaaactg	tgatttttta	aaaatatcat	ttgagaatat	tctttcagag	gtatttttcat	300
ttttactttt	tgatttaattg	tgttttatat	attagggtag	t		341

<210> 42

<211> 101

<212> DNA

<213> Homo sapien

<400> 42

acttactgaa	tttagttctg	tgctcttcct	tatttagtgt	tgtatcataa	atactttgat	60
gtttcaaaca	ttctaataa	ataattttca	gtggcttcat	a		101

<210> 43

<211> 305

<212> DNA

<213> Homo sapien

<400> 43

acatctttgt	tacagtctaa	gatgtgttct	taaatcacca	ttccttcctg	gtcctcaccc	60
tccaggggtg	tctcacactg	taattagagc	tattgaggag	tctttacagc	aaattaagat	120
tcagatgcct	tgctaagtct	agagttctag	agttatgttt	cagaaagtct	aagaaaccca	180
cctcttgaga	ggtcagtaaa	gaggacttaa	tatttcatat	ctacaaaatg	accacaggat	240
tgatacaga	acgagagtta	tcctggataa	ctcagagctg	agtacctgcc	cgggggccgc	300
tcgaa						305

<210> 44

<211> 852

<212> DNA

<213> Homo sapien

<220>

20

<221> misc\_feature  
 <222> (1)...(852)  
 <223> n = A,T,C or G

<400> 44  
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 gattatttgg tgtgtgtttt ggtttgtgtc caaagtattg gcagcttcag ttttcatttt 120  
 ctctccatcc tcgggcattc ttcccaaatt tatataccag tcttcgtcca tccacacgct 180  
 ccagaatttc tctttttag tagtatctca tagctcggct gagcttttca taggtcatgc 240  
 tgctgttgtt cttcttttta ccccatagct gagccactgc ctctgatttc aagaacctga 300  
 agacgccctc agatcgggtc tccattttta ttaatcctgg gttcttgtct gggttcaaga 360  
 ggatgtcgcg gatgaattcc cataagttag tccctctcgg gttgtgcttt ttgggtgtggc 420  
 acttggcagg ggggtcttgc tcccttttca tatcaggtag ctctgcaaca ggaaggtagc 480  
 tggtggttgc catggagatc tgagcccggc agaaagtatt gctgtccaac aaatctactg 540  
 tgctaccata gttgggtgca tataaatagt tctngtcttt ccagggtgtc atgatggaag 600  
 gctcagtttg ttcagtcctg acaatgacat tgtgtgtgga ctggaacagg tcactactgc 660  
 actggccgtt ccacttcaga tgctgcaagt tgctgtagag gagntgcccc gccgtccctg 720  
 ccgcccgggt gaactcctgc aaactcatgc tgcaaagggt ctgcgcgttg atgtcgaact 780  
 cntggaaagg gatacaattg gcatccagct ggttggtgtc caggaggtga tggagccact 840  
 cccacacctg gt 852

<210> 45  
 <211> 234  
 <212> DNA  
 <213> Homo sapien

<400> 45  
 acaacagacc cttgctcgtc aacgacctca tgctcatcaa gttggacgaa tccgtgtccg 60  
 agtctgacac catccggagc atcagcattg cttcgcagtg ccttaccgcg gggaactctt 120  
 gcctcgtttc tggctgggggt ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg 180  
 tgaacgtgtc ggtggtgtct gaggaggtct gcagtaagct ctatgacccg ctgt 234

<210> 46  
 <211> 590  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(590)  
 <223> n = A,T,C or G

<400> 46  
 actttttatt taaatgttta taaggcagat ctatgagaat gatagaaaac atggtgtgta 60  
 atttgatagc aatatttttg agattacaga gtttttagtaa ttaccaatta cacagttaaa 120  
 aagaagataa tatattccaa gcanatacaa aatatctaata gaaagatcaa ggcaggaaaa 180  
 tgantataac taattgacaa tggaaaatca attttaaatgt gaattgcaca ttatccttta 240  
 aaagctttca aaanaaanaa ttattgcagt ctanttaatt caaacagtgt taaatggtat 300  
 caggataaan aactgaaggg canaaaagaat taattttcac ttcattgtaac ncacccanat 360  
 ttacaatggc ttaaattgcan ggaaaaagca gtggaagtag ggaagtantc aaggcttttc 420  
 tggctctctaa tctgccttac tcttgggtg tggtctttgat cctctggaga cagctgocag 480  
 ggctcctgtt atatccacaa tcccagcagc aagatgaagg gatgaaaaag gacacatgct 540  
 gccttccttt gaggagactt catctcactg gccaacactc agtcacatgt 590

<210> 47  
 <211> 774  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(774)  
 <223> n = A,T,C or G

<400> 47  
 acaagggggc ataatgaagg agtgggggana gatttttaag aaggaaaaaa aacgaggccc 60  
 tgaacagaat ttctctgnac aacgggggctt caaaataatt ttcttgggga ggttcaagac 120  
 gcttcactgc ttgaaactta aatggatgtg ggacanaatt ttctgtaatg accctgaggg 180  
 cattacagac gggactcttg gaggaaggat aaacagaaag gggacaaagg ctaatcccaa 240  
 aacatcaaag aaaggaagggt ggcgtcatac ctcccagcct acacagttct ccagggtctt 300  
 cctcatccct ggaggacgac agtggaggaa caactgacca tgtccccagg ctctgtgtg 360  
 ctggctcctg gtcttcagcc cccagctctg gaagcccacc ctctgtctgat cctgcgtggc 420  
 ccacactcct tgaacacaca tccccagggt atatttctgg acatggctga acctcctatt 480  
 cctacttccg agatgccttg ctccctgcag cctgtcaaaa tcccactcac cctccaaacc 540  
 acggcatggg aagcctttct gacttgccctg attactccag catcttggaa caatccctga 600  
 ttccccaactc cttagaggca agataggggt gttaagagta gggctggacc acttggagcc 660  
 aggctgctgg cttcaaattt tggctcattt acgagctatg ggaccttggg caagtnatct 720  
 tcacttctat gggcntcatt ttgttctacc tgcaaaatgg gggataataa tagt 774

<210> 48  
 <211> 124  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(124)  
 <223> n = A,T,C or G

<400> 48  
 canaaattga aattttataa aaaggcattt ttctcttata tccataaaat gatataattt 60  
 ttgcaantat anaaatgtgt cataaattat aatgttcctt aattacagct caacgcaact 120  
 tgg 124

<210> 49  
 <211> 147  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(147)  
 <223> n = A,T,C or G

<400> 49  
 gccgatgcta ctatttttatt gcaggaggtg ggggtgtttt tattattctc tcaacagctt 60  
 tgtggctaca ggtggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt 120  
 ttagggcacc catatcccaa gcantgt 147

<210> 50  
 <211> 107  
 <212> DNA  
 <213> Homo sapien

<400> 50  
 acattaaatt aataaaagga ctgttgggggt tctgctaaaa cacatggctt gatatatgtc 60

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atggtttgag gttaggagga gttaggcata tgttttggga gaggggt 107

<210> 51  
 <211> 204  
 <212> DNA  
 <213> Homo sapien

<400> 51  
 gtcctaggaa gtctagggga cacacgactc tgggggtcacg gggccgacac acttgacagg 60  
 cggaagaa aggcagagaa gtgacaccgt cagggggaaa tgacagaaag gaaaatcaag 120  
 gccttgcaag gtcagaaagg ggactcaggg cttccaccac agccctgccc caattggcca 180  
 cctccctttt gggaccagca atgt 204

<210> 52  
 <211> 491  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(491)  
 <223> n = A,T,C or G

<400> 52  
 acaaagataa catttatctt ataacaaaaa tttgatagtt tttaaaggta gtattgtgta 60  
 gggatatttc caaaagacta aagagataac tcaggtaaaa agttagaaat gtataaaaca 120  
 ccatcagaca ggttttttaa aaacaacata ttacaaaatt agacaatcat ccttaaaaaa 180  
 aaaacttctt gtatcaattt cttttgttca aaatgactga cttaantatt tttaaatatt 240  
 tcanaaacac ttcttcaaaa attttcaana tggtagcttt canatgtnc ctcagtccca 300  
 atgttgctca gataaataaa tctcgtgaga acttaccacc caccacaagc tttctggggc 360  
 atgcaacagt gtcttttctt tnccttttct tttttttttt ttacaggcac agaaactcat 420  
 caattttatt tggataacaa aggtctcca aatttatattg aaaaataaat ccaagttaat 480  
 atcactcttg t 491

<210> 53  
 <211> 484  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(484)  
 <223> n = A,T,C or G

<400> 53  
 acataattta gcagggctaa ttaccataag atgctattta ttaanaggtn tatgatctga 60  
 gtattaacag ttgctgaagt ttggatattt tatgcagcat tttctttttg ctttgataac 120  
 actacagaac ccttaaggac actgaaaatt agtaagtaaa gttcagaaac attagctgct 180  
 caatcaaato tctacataac actatagtaa ttaaaacggt aaaaaaaagt gttgaaatct 240  
 gcaactagtat anaccgctcc tgtcaggata anactgcttt ggaacagaaa gggaaaaanc 300  
 agctttgant ttctttgtgc tgatangagg aaaggctgaa ttaccttggt gcctctccct 360  
 aatgattggc aggtcnggta aatnccaaaa catattccaa ctcaacactt cttttccncg 420  
 tanccttgant ctgtgtattc caggancagg cggatggaat gggccagccc nccgatgttc 480  
 cant 484

<210> 54  
 <211> 151  
 <212> DNA



<213> Homo sapien

<400> 54

actaaacctc	gtgcttgtga	actccataca	gaaaacgggtg	ccatccctga	acacggctgg	60
ccactgggta	tactgctgac	aaccgcaaca	acaaaaacac	aaatccttgg	cactggctag	120
tctatgtcct	ctcaagtgcc	tttttgtttg	t			151

<210> 55

<211> 91

<212> DNA

<213> Homo sapien

<400> 55

acctggcttg	tctccgggtg	gttcccggcg	ccccccacgg	tccccagaac	ggacactttc	60
gccctccagt	ggatactcga	gccaaagtgg	t			91

<210> 56

<211> 133

<212> DNA

<213> Homo sapien

<400> 56

ggcggatgtg	cgttgggttat	atacaaatat	gtcatttttat	gtaagggact	tgagtatact	60
tggatttttg	gtatctgtgg	gttgggggga	cggtccagga	accaataccc	catggatacc	120
aagggacaac	tgt					133

<210> 57

<211> 147

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(147)

<223> n = A,T,C or G

<400> 57

actctggaga	acctgagccg	ctgctccgcc	tctgggatga	ggtgatgcan	gcngtggcgc	60
gactggggagc	tgagcccttc	cctttgcgcc	tgcctoagag	gattgttgcc	gacntgcana	120
tctcantggg	ctggatncat	gcagggt				147

<210> 58

<211> 198

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(198)

<223> n = A,T,C or G

<400> 58

acagggatat	aggtttnaag	ttattgtnat	tgtaaaatac	attgaatttt	ctgtatactc	60
tgattacata	catttatcct	ttaaaaaaga	tgtaaactct	aatttttatg	ccatctatta	120
atttaccaat	gagttacctt	gtaaatgaga	agtcatagata	gcactgaatt	ttaaactagtt	180
ttgactttcta	agttttggt					198

<210> 59

24

<211> 330  
 <212> DNA  
 <213> Homo sapien

<400> 59  
 acaacaaatg gggtgtgagg aagtcttatac agcaaaactg gtgatggcta ctgaaaagat 60  
 ccattgaaaa ttatcattaa tgatttttaa tgacaagtta tcaaaaactc actcaatttt 120  
 cacctgtgct agcttgctaa aatgggagtt aactctagag caaatatagt atcttctgaa 180  
 tacagtcaat aaatgacaaa gccagggcct acagggtggt tccagacttt ccagacccag 240  
 cagaaggaat ctattttatc acatggatct ccgtctgtgc tcaaaatacc taatgatatt 300  
 tttcgtcttt attggacttc tttgaagagt 330

<210> 60  
 <211> 175  
 <212> DNA  
 <213> Homo sapien

<400> 60  
 accgtgggtg ccttctacat tcctgacggc tccttcacca acatctggtt ctacttcggc 60  
 gtcgtgggct ccttctctt catcctcatc cagctggtgc tgctcatcga ctttgccgac 120  
 tcctggaacc agcgggtggct gggcaaggcc gaggagtgcg attcccgtgc ctggt 175

<210> 61  
 <211> 154  
 <212> DNA  
 <213> Homo sapien

<400> 61  
 accccaattt tcctcctgtg agcagtctgg acttctcact gctacatgat gagggtgagt 60  
 ggttggtgct ctccaacagt atcctcccct ttccggatct gctgagccgg acagcagtgc 120  
 tggactgcac agccccgggg ctccacattg ctgt 154

<210> 62  
 <211> 30  
 <212> DNA  
 <213> Homo sapien

<400> 62  
 cgctcgagcc ctatagtgag tcgtattaga 30

<210> 63  
 <211> 89  
 <212> DNA  
 <213> Homo sapien

<400> 63  
 acaagtcatt tcagcaccct ttgctcttca aaactgacca tcttttatat ttaatgcttc 60  
 ctgtatgaat aaaaatgggt atgtcaagt 89

<210> 64  
 <211> 97  
 <212> DNA  
 <213> Homo sapien

<400> 64  
 accggagtaa ctgagtcggg acgctgaatc tgaatccacc aataaataaa ggttctgcag 60  
 aatcagtgc tccaggattg gtccttgat ctggggg 97

25

<210> 65  
 <211> 377  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(377)  
 <223> n = A,T,C or G

<400> 65  
 acaacaanaa ntcccttctt taggccactg atggaaacct ggaacccccct tttgatggca 60  
 gcatggcgctc ctaggccttg acacagcggc tggggtttgg gctntcccaa accgcacacc 120  
 ccaaccctgg tctaccaca nttctggcta tgggctgtct ctgccactga acatcaggggt 180  
 tcggtcataa natgaaatcc caanggggac agagggtcagt agaggaagct caatgagaaa 240  
 ggtgctgttt gctcagccag aaaacagctg cctggcattc gccgctgaac tatgaaccgg 300  
 tgggggtgaa ctaccccan gaggaatcat gcctgggcga tgcaanggtg ccaacaggag 360  
 ggcggggagg agcatgt 377

<210> 66  
 <211> 305  
 <212> DNA  
 <213> Homo sapien

<400> 66  
 acgcctttcc ctccagaattc agggaagaga ctgtcgcctg ccttcctccg ttgttgcggtg 60  
 agaaccctgt tgcctcttcc caccatatcc accctcgctc catctttgaa ctcaaacaag 120  
 aggaactaac tgcaccctgg tcctctcccc agtccccagt tcaccctcca tccctcacct 180  
 tcctccactc taagggatat caacactgcc cagcacaggg gccctgaatt tatgtgggtt 240  
 ttatatattt ttttaataaga tgcactttat gtcatttttt aataaagtct gaagaattac 300  
 tgttt 305

<210> 67  
 <211> 385  
 <212> DNA  
 <213> Homo sapien

<400> 67  
 actacacaca ctccacttgc ctttgtgaga cactttgtcc cagcacttta ggaatgctga 60  
 ggtcggacca gccacatctc atgtgcaaga ttgcccagca gacatcaggt ctgagagtgc 120  
 cccttttaaa aaaggggact tgcttaaaaa agaagtctag ccacgattgt gtagagcagc 180  
 tgtgctgtgc tggagattca cttttgagag agttctcctc tgagacctga tcttttagagg 240  
 ctgggcagtc ttgcacatga gatggggctg gtctgatctc agcactcctt agtctgcttg 300  
 cctctcccag ggccccagcc tggccacacc tgcttacagg gcactctcag atgcccatac 360  
 catagtttct gtgctagtgg accgt 385

<210> 68  
 <211> 73  
 <212> DNA  
 <213> Homo sapien

<400> 68  
 acttaaccag atatatTTTT accccagatg gggatattct ttgtaaaaaa tgaaaataaa 60  
 gtttttttaa tgg 73

<210> 69  
 <211> 536  
 <212> DNA

26

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(536)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 69

actagtccag	tgtggtgga	ttccattgtg	ttgggggctc	tcaccctcct	ctcctgcagc	60
tccagctttg	tgctctgcct	ctgaggagac	catggcccag	catctgagta	ccctgctgct	120
cctgctggcc	accctagctg	tggccctggc	ctggagcccc	aaggaggagg	ataggataat	180
cccgggtggc	atctataacg	cagacctcaa	tgatgagtg	gtacagcgtg	cccttcactt	240
cgccatcagc	gagtataaca	aggccaccaa	agatgactac	tacagacgtc	cgctgcgggt	300
actaagagcc	aggcaacaga	ccgttggggg	ggtgaattac	ttcttcgacg	tagagggtgg	360
ccgaaccata	tgtaccaagt	cccagcccaa	cttggacacc	tgtgccttcc	atgaacagcc	420
agaactgcag	aagaaacagt	tgtgctcttt	cgagatctac	gaagttccct	ggggagaaca	480
gaangtccct	gggtgaaatc	caggtgtcaa	gaaatcctan	ggatctgttg	ccaggc	536

&lt;210&gt; 70

&lt;211&gt; 477

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 70

atgaccccta	acaggggccc	tctcagccct	cctaatagacc	tccggcctag	ccatgtgatt	60
tcacttccac	tcataaacgc	tcctcatact	aggcctacta	accaacacac	taaccatata	120
ccaatgatgg	cgcgatgtaa	cacgagaaa	cacataccaa	ggccaccaca	caccacctgt	180
ccaaaaaggc	cttcgatagc	ggataatcct	atttattacc	tcagaagttt	ttttcttcgc	240
agggatTTTT	ctgagccttt	taccactcca	gcctagcccc	tcccccccaa	ctaggagggc	300
actggccccc	aacaggcatc	accccgctaa	atccoctaga	agtcccactc	ctaaacacat	360
ccgtattact	cgcatacagga	gtatcaatca	cctgagctca	ccatagtcta	atagaaaaca	420
accgaaacca	aattattcaa	agcactgctt	attacaattt	tactgggtct	ctattttt	477

&lt;210&gt; 71

&lt;211&gt; 533

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(533)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 71

agagctatag	gtacagtgtg	atctcagctt	tgcaaacaca	ttttctacat	agatagtact	60
aggatattaat	agatatgtaa	agaaagaaat	cacaccatta	ataatggtaa	gattgggttta	120
tgtgatttta	gtggtatttt	tggcaccctt	atatatgttt	tccaaacttt	cagcagtgat	180
attattttcca	taacttaaaa	agtgagtttg	aaaaagaaaa	tctccagcaa	gcatctcatt	240
taaataaagg	tttgtcatct	ttaaaaatac	agcaatatgt	gactttttta	aaaagctgtc	300
aaatagggtgt	gaccctacta	ataattatta	gaaatacatt	taaaaacatc	gagtacctca	360
agtcagtttg	ccttgaaaaa	tatcaaatat	aactcttaga	gaaatgtaca	taaaagaatg	420
cttcgtaatt	ttggagtang	aggttccctc	ctcaattttg	tattttttaa	aagtacatgg	480
taaaaaaaaa	aattcacac	agtatataag	gctgtaaaaa	gaagaattct	gcc	533

&lt;210&gt; 72

&lt;211&gt; 511

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

27

<220>  
 <221> misc\_feature  
 <222> (1)...(511)  
 <223> n = A,T,C or G

<400> 72  
 tattacggaa aaacacacca cataattcaa ctancaaaga anactgcttc agggcgtgta 60  
 aaatgaaaagg cttccaggca gttatctgat taaagaacac taaaagaggg acaaggctaa 120  
 aagccgcagg atgtctacac tatancaggc gctatctggg ttggctggag gagctgtgga 180  
 aaacatggan agattgggtgc tgganacgc cgtggctatt cctcattggt attacanagt 240  
 gaggttctct gtgtgcccac tggtttgaaa accgttctnc aataatgata gaatagtaca 300  
 cacatgagaa ctgaaatggc ccaaaccag aaagaaagcc caactagatc ctcagaanac 360  
 gcttctaagg acaataaccg atgaagaaaa gatggcctcc ttgtgcccc gtctgttatg 420  
 atttctctcc attgcagcna naaaccggtt cttctaagca aacncagggtg atgatggcna 480  
 aaatacacccc cctcttgaag naccnggagg a 511

<210> 73  
 <211> 499  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(499)  
 <223> n = A,T,C or G

<400> 73  
 cagtgccagc actggtgcca gtaccagtac caataacagt gccagtgccg gtgccagcac 60  
 cagtggtggc ttcagtgtct gtgccagcct gaccgccact ctcacatttg ggctcttcgc 120  
 tggccttggt ggagctgggt ccagcaccag tggcagctct ggtgcctgtg gtttctccta 180  
 caagtgaagt tttagatatt gttaatcctg ccagtctttc tcttcaagcc aggggtgcac 240  
 ctcagaaaacc tactcaacac agcactctag gcagccacta tcaatcaatt gaagttgaca 300  
 ctctgcatta aatctatttg ccatttctga aaaaaaaaaa aaaaaaaggg cggccgctcg 360  
 antctagagg gcccgtttaa acccgctgat cagcctcgac tgtgccttct anttgccagc 420  
 catctgttgt ttgcccctcc cccgntgcct tccttgaccc tggaaagtgc cactcccact 480  
 gtccttttct aantaaaat 499

<210> 74  
 <211> 537  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(537)  
 <223> n = A,T,C or G

<400> 74  
 tttcatagga gaacacactg aggagatact tgaagaattt ggattcagcc gcgaagagat 60  
 ttatcagctt aactcagata aaatcattga aagtaataag gtaaaagcta gtctctaact 120  
 tccaggccca cggctcaagt gaatttgaat actgcattta cagtgtagag taacacataa 180  
 cattgtatgc atggaaacat ggaggaacag tattacagtg tcctaccact ctaatcaaga 240  
 aaagaattac agactctgat tctacagtga tgattgaatt ctaaaaatgg taatcattag 300  
 ggcttttgat ttataanact ttgggtactt atactaaatt atggtagtta tactgccttc 360  
 cagtttgctt gatataattt ttgatattaa gattcttgac ttatattttg aatgggttct 420  
 actgaaaaan gaatgatata ttcttgaaga catcgatata catttattta cactcttgat 480  
 tctacaatgt agaaaatgaa ggaaatgccc caaattgtat ggtgataaaa gtcccggt 537

28

```

<210> 75
<211> 467
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G

<400> 75
caaanacaat tggtcaaaag atgcaaatag tacactactg ctgcagctca caaacacctc      60
tgcataattac acgtacctcc tcctgctcct caagtagtgt ggtctatattt gccatcatca      120
cctgctgtct gcttagaaga acggctttct gctgcaangg agagaaatca taacagacgg      180
tggcacaagg aggccatctt ttctcatcgc gttattgtcc ctagaagcgt cttctgagga      240
tctagttggg ctttctttct gggtttgggc catttcantt ctcatgtgtg tactattcta      300
tcattattgt ataacgggtt tcaaaccngt gggcacncag agaacctcac tctgtaataa      360
caatgaggaa tagccacggg gatctccagc accaaatctc tccatgttnt tccagagctc      420
ctccagccaa cccaaatagc cgctgctatn gtgtagaaca tccctgn                      467

<210> 76
<211> 400
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

<400> 76
aagctgacag cattcgggcc gagatgtctc gctccgtggc cttagctgtg ctgcgcgtac      60
tctctctttc tggcctggag gctatccagc gtactccaaa gattcagggt tactcacgtc      120
atccagcaga gaatggaaag tcaaatttcc tgaattgcta tgtgtctggg ttctatccat      180
ccgacattga agttgactta ctgaagaatg gagagagaat tgaaaaagtg gagcattcag      240
acttgtcttt cagcaaggac tgggtctttct atctcttgta ctacactgaa ttcaccccca      300
ctgaaaaaga tgagtatgcc tgccgtgtga accatgtgac tttgtcacag cccaagatng      360
ttnagtggga tcganacatg taagcagcan catgggaggt                      400

<210> 77
<211> 248
<212> DNA
<213> Homo sapien

<400> 77
ctggagtgcc ttggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcacct      60
ccagctgccc cggcggggga tgcgaggctc ggagcaccct tgcccggctg tgattgctgc      120
caggcactgt tcatctcagc ttttctgtcc ctttgcctcc ggcaagcgct tctgctgaaa      180
gttcatatct ggagcctgat gtcttaacga ataaaggctc catgctccac ccgaaaaaaa      240
aaaaaaaaa
                                         248

<210> 78
<211> 201
<212> DNA
<213> Homo sapien

<400> 78

```

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actagtccag tgtggtggaa ttccattgtg ttggggcccaa cacaatggct acctttaaca    60
tcacccagac cccgccctgc ccgtgcccc cgtgtctgct aacgacagta tgatgcttac    120
tctgctactc ggaaactatt tttatgtaat taatgtatgc tttcttggtt ataaatgcct    180
gatttaaaaa aaaaaaaaaa a

```

```

<210> 79
<211> 552
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(552)
<223> n = A,T,C or G

```

```

<400> 79
tccttttgtt aggtttttga gacaacccta gacctaaact gtgtcacaga cttctgaatg    60
tttaggcagt gctagtaatt tcctcgtaat gattctgtta ttactttcct attctttatt    120
cctctttctt ctgaagatta atgaagtgtg aaattgaggt ggataaatac aaaaaggtag    180
tgtgatagta taagtatcta agtgcagatg aaagtgtgtt atatatatcc attcaaaatt    240
atgcaagtta gtaattactc agggtttaact aaattacttt aatatgctgt tgaacctact    300
ctgttccttg gctagaaaaa attataaaca ggactttgtt agtttgggaa gccaaattga    360
taatatctta tgttctaaaa gttgggctat acataaanta tnaagaaata tgggaatttta    420
ttcccaggaa tatgggggttc atttatgaat antaccggg anagaagttt tgantnaaac    480
cngtttttgt taatacgtta atatgtcctn aatnaacaag gcntgactta ttccaaaaa    540
aaaaaaaaaa aa

```

```

<210> 80
<211> 476
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

```

```

<400> 80
acagggattt gagatgctaa ggccccagag atcgtttgat ccaaccctct tattttcaga    60
ggggaaaaat gggcctagaa gttacagagc atctagctgg tgcgctggca cccctggcct    120
cacacagact cccgagtagc tgggactaca ggcacacagt cactgaagca ggccctgttt    180
gcaattcacg ttgccacctc caacttaaac attcttcata tgtgatgtcc ttagtcacta    240
aggttaaact ttcccaccca gaaaaggcaa cttagataaa atcttagagt actttcatac    300
tcttctaagt cctcttccag cctcactttg agtcctcctt gggggttgat aggaantntc    360
tcttggcctt ctcaataaaa tctctatcca tctcatgttt aatttgggtac gcntaaaaat    420
gctgaaaaaa ttaaatgtt ctggtttcnc tttaaaaaaa aaaaaaaaaa aaaaaa    476

```

```

<210> 81
<211> 232
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

```

```

<400> 81

```

## 30

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tttttttttg tatgcctntcn ctgtggngtt attgttgctg ccaccctgga ggagcccagt      60
ttcttctgta tctttctttt ctgggggatc ttcttggctc tgcccctcca ttcccagcct      120
ctcatcccca tcttgcaactt ttgctagggg tggaggcgct ttcttggtag cccctcagag      180
actcagtcag cggaataaag tcctaggggt ggggggtgtg gcaagccggc ct                232

```

```

<210> 82
<211> 383
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

```

```

<400> 82
aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc      60
agtaccagta ccaataacat gccagtgccg gtgccagcac cagtgggtggc ttcagtgcctg      120
gtgccagcct gaccgccact ctcacatttg ggctcttcgc tggccttggg ggagctgggtg      180
ccagcaccag tggcagctct ggtgcctgtg gtttctccta caagtgagat tttagatatt      240
gttaatcctg ccagtccttct tcttcaagcc aggggtgcac ctcagaaaacc tactcaacac      300
agcactctng gcagccacta tcaatcaatt gaagttgaca ctctgcatta aatctatttg      360
ccatttcaaa aaaaaaaaaa aaa                383

```

```

<210> 83
<211> 494
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(494)
<223> n = A,T,C or G

```

```

<400> 83
accgaattgg gaccgctggc ttataagcga tcatgtcctc cagtattacc tcaacgagca      60
gggagatcga gtctatacgc tgaagaaatt tgaccgatg ggacaacaga cctgctcagc      120
ccatcctgct cggttctccc cagatgacaa atactctcga caccgaatca ccatcaagaa      180
acgcttcaag gtgctcatga ccagcaacc gcgccctgtc ctctgagggt ccttaaactg      240
atgtcttttc tgccacctgt taccctcgg agactccgta accaaactct tcggactgtg      300
agccctgatg cctttttgcc agccatactc tttggcntcc agtctctcgt ggcgattgat      360
tatgcttggt tgaggcaatc atggtggcat caccatnaa gggaacacat ttganttttt      420
tttncatat tttaaattac naccagaata nttcagaata aatgaattga aaaactctta      480
aaaaaaaaaa aaaa                494

```

```

<210> 84
<211> 380
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(380)
<223> n = A,T,C or G

```

```

<400> 84
gctggtagcc tatggcgtgg ccacggangg gctcctgagg cacgggacag tgacttccca      60
agtatcctgc gccgcgtctt ctaccgtccc tacctgcaga tcttcgggca gattccccag      120

```



```

gaggacatgg acgtggccct catggagcac agcaactgct cgtcggagcc cggcttctgg 180
gcacacccctc ctggggccca ggcgggcacc tgcgtctccc agtatgccaa ctggctgggtg 240
gtgctgctcc tcgtcatctt cctgctcgtg gccaacatcc tgctggtcac ttgtcattg 300
ccatgttcag ttacacattc ggcaaagtac agggcaacag cnatctctac tgggaaggcc 360
agcgttnccg cctcatccg 380

```

```

<210> 85
<211> 481
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(481)
<223> n = A,T,C or G

```

```

<400> 85
gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggcctctcgc ttcataccgc 60
tnccatcgct atactgtagg ttggccacca cctcctgcat cttggggcgg ctaatatcca 120
ggaaactctc aatcaagtca ccgtcnatna aacctgtggc tggttctgtc ttccgctcgg 180
tgtgaaagga tctccagaag gagtgtcga tcttccccac acttttgatg actttattga 240
gtcgattctg catgtccagc aggaggttgt accagctctc tgacagttag gtcaccagcc 300
ctatcatgcc nttgaacgtg ccgaagaaca ccgagccttg tgtggggggg gnagtctcac 360
ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggngaa 420
aaagaacacc tcctggaagt gctngccgct cctcgtcctt tgggtggnngc gcntnccttt 480
t 481

```

```

<210> 86
<211> 472
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

```

```

<400> 86
aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgctg agaattcatt 60
acttgaaaaa gcaacttnaa gcctggacac tggattataa attcacaata tgcaacactt 120
taaacagtgt gtcaatctgc tcccttactt tgatcatcacc agtctgggaa taaggggatg 180
ccctattcac acctgttaaa agggcgctaa gcatttttga ttcaacatct ttttttttga 240
cacaagtccg aaaaaagcaa aagtaaacag ttnttaattt gttagccaat tcactttctt 300
catgggacag agccatttga tttaaaaagc aaattgcata atattgagct ttgggagctg 360
atatntgagc ggaagantag cctttctact tcaocagaca caactccttt catattggga 420
tgtnnacnaa agttatgtct cttacagatg ggatgctttt tgggcaattc tg 472

```

```

<210> 87
<211> 413
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(413)
<223> n = A,T,C or G

```

```

<400> 87

```

```

agaaccagtg atctctnaaa acaacctctc atacctgttg gacctaatgt tgtgtgcgtg      60
tgtgtgtgcg cgcataattat atagacaggc acatcttttt tacttttgta aaagcttatg      120
cctcttttgt atctatatct gtgaaagttt taatgatctg ccataatgtc ttggggacct      180
ttgtcttctg tgtaaatggg actagagaaa acacctatnt tatgagtcaa tctagttingt      240
tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc cttgactagg      300
ggggacaaaag aaaagcanaa ctgaacatna gaaacaattn cctgggtgaga aattncataa      360
acagaaattg ggtngtatat tgaaananng catcattnaa acgttttttt ttt              413

```

```

<210> 88
<211> 448
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(448)
<223> n = A,T,C or G

```

```

<400> 88
cgcagcgggt cctctctatc tagctccagc ctctcgcttg ccccaactcc cgcgtcccgc      60
gtcctagccn accatggccg ggcccctgcg cgcccgcgtg ctctgtgtgg ccatacctggc      120
cgtggccctg gccgtgagcc ccgcggccgg ctccagctcc ggcaagccgc cgcgcctggg      180
gggaggccca tggacccccg gtggaagaag aagggtgtgc gcggtgactg gactttgccc      240
tcggcnanta caacaaaccc gcaacnactt ttaccnagcn cgcgctgcag gttgtgccc      300
cccaancaa ttgttactng gggtaaantaa ttcttggaa ttgaacctgg gccaaacnng      360
tttaccagaa ccnagccaat tngaacaatt ncccctccat aacagcccct tttaaaaagg      420
gaancantcc tgntcttttc caaat      448

```

```

<210> 89
<211> 463
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

```

```

<400> 89
gaattttgtg cactggccac tgtgatggaa ccattgggccc aggatgcttt gagtttatca      60
gtagtgattc tgccaaagtt ggtgttgtaa catgagtatg taaaatgtca aaaaatttagc      120
agagggtctag gtctgcatat cagcagacag tttgtccgtg tattttgtag ccttgaagtt      180
ctcagtgaca agttnnntct gatgcgaagt tctnattcca gtgttttagt cctttgcac      240
tttnatgttn agacttgccct ctntnaaatt gcttttgtnt tctgcaggta ctatctgtgg      300
tttaacaaaa tagaannact tctctgcttn gaanatttga atatcttaca tctnaaaatn      360
aattctctcc ccatannaaa acccangccc ttggganaat ttgaaaaang gntccttcnn      420
aattcnnana anttcagtn tcatacaaca naacngganc ccc              463

```

```

<210> 90
<211> 400
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

```

```

<400> 90
agggattgaa ggtctnttnt actgtcggac tgttcancca ccaactctac aagttgctgt      60
cttccactca ctgtctgtaa gcntnttaac ccagactgta tcttcataaa tagaacaaat      120
tcttcaccag tcacatcttc taggaccttt ttggattcag ttagtataag ctcttccact      180
tcctttgtta agacttcatac tggtaaagtc ttaagttttg tagaaaggaa ttttaattgct      240
cgttctctaa caatgtcctc tccttgaagt atttggctga acaaccacc tnaagtcct      300
ttgtgcatcc attttaataa tacttaatag ggcattggtn cactaggtta aattctgcaa      360
gagtcactctg tctgcaaaag ttgcgttagt atatctgcc      400

```

```

<210> 91
<211> 480
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(480)
<223> n = A,T,C or G

```

```

<400> 91
gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact      60
ggtctacccc acatgggagc agcatgccgt agntatataa ggtcattccc tgagtcagac      120
atgctctttt gactaccgtg tgccagtgtt ggtgattctc acacacctcc nnccgctctt      180
tgtggaaaaa ctggcacttg nctggaacta gcaagacatc acttacaaat tcacccacga      240
gacacttgaa aggtgtaaca aagcgactct tgcattgctt tttgtccctc cggcaccagt      300
tgtcaatact aacccgctgg ttgcctcca tcacatttgt gatctgtagc tctggatata      360
tctcctgaca gtactgaaga acttcttctt ttgtttcaaa agcaactctt ggtgcctggt      420
ngatcagggt cccatttccc agtccgaatg ttcacatggc atatnttact tcccacaaaa      480

```

```

<210> 92
<211> 477
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G

```

```

<400> 92
atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcgggtcact      60
ggtcccgtctg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcctt      120
cccacgcagg cagcagcggg gccggtcaat gaactccact cgtggcttgg ggttgacggg      180
taantgcagg aagaggctga ccacctcgcg gtccaccagg atgcccgact gtgogggacc      240
tgcagcgaaa ctcctcgatg gtcatgagcg ggaagcgaat gangcccagg gccttgccca      300
gaaccttcog cctgttctct ggcgtcacct gcagctgctg ccgctnacac tcggcctcgg      360
accagcggac aaacggcggt gaacagccgc acctcacgga tgcccantgt gtgcgcgtcc      420
aggaacggcn ccagcgtgtc caggtcaatg tcggtgaanc ctccgcgggt aatggcg      477

```

```

<210> 93
<211> 377
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(377)
<223> n = A,T,C or G

```

```

<400> 93
gaacggctgg accttgccctc gcattgtgct gctggcagga ataccttggc aagcagctcc      60
agtccgagca gccccagacc gctgccgccc gaagctaagc ctgcctctgg ccttcccctc      120
cgcctcaatg cagaaccant agtgggagca ctgtgttttag agttaagagt gaacactgtn      180
tgattttact tgggaatttc ctctgtttata tagcttttcc caatgctaatt ttccaaacaa      240
caacaacaaa ataacatggt tgccctgttna gttgtataaa agtangtgat tctgtatnta      300
aagaaaatat tactgtttaca tatactgctt gcaantttctg tattttattgg tnctctggaa      360
ataaatatat tattaata

```

```

<210> 94
<211> 495
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(495)
<223> n = A,T,C or G

```

```

<400> 94
ccctttgagg ggtaggggtc cagttcccag tggaagaaac aggccaggag aantgcgtgc      60
cgagctgang cagatttccc acagtgaccc cagagccctg ggctatagtc tctgaccctc      120
ccaaggaaaag accaccttct ggggacatgg gctggagggc aggacctaga ggcaccaagg      180
gaaggcccca ttccgggggt gttccccgag gaggaaggga aggggctctg tgtgcccccc      240
acgaggaana ggccctgant cctgggatca nacaccctt cactgtgata ccacacaaaa      300
tgcaagctca ccaaggtccc ctctcagtcc ctccctaca ccctgaacgg nactggccc      360
acaccacccc agancancca cccgccatgg ggaatgttct caaggaatcg cngggcaacg      420
tggaactctng tcccnaagg gggcagaatc tccaatagan gganngaacc cttgctnana      480
aaaaaaaaa aaaaa

```

```

<210> 95
<211> 472
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

```

```

<400> 95
ggttacttgg tttcattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc      60
cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt      120
tagctgtttt gagttgattc gcaccactgc accacaactc aatatgaaaa ctatttnact      180
tattttattat cttgtgaaaa gtatacaatg aaaattttgt tcatactgta tttatcaagt      240
atgatgaaaa gcaatagata tatattcttt tattatgttn aattatgatt gccattatta      300
atcggcacaaa tgtggagtgt atgttctttt cacagtaata tatgcctttt gtaacttcac      360
ttggttattt tattgtaaat gaattacaaa attcttaatt taagaaaatg gtangttata      420
tttanttcan taatttcttt cttgttttac gtttaattttg aaaagaatgc at          472

```

```

<210> 96
<211> 476
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature

```

## 35

&lt;222&gt; (1)...(476)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 96

ctgaagcatt	tcttcaaact	tntctacttt	tgtcattgat	acctgtagta	agttgacaat	60
gtggtgaaat	ttcaaaatta	tatgtaactt	ctactagttt	tactttctcc	cccaagtctt	120
ttttaactca	tgattttttac	acacacaatc	cagaacttat	tatatagcct	ctaagtcttt	180
attcttcaca	gtagatgatg	aaagagtcct	ccagtgtctt	gngcanaatg	ttctagntat	240
agctggatac	atacngtggg	agttctataa	actcatacct	cagtgggact	naaccaaaat	300
tgtgttagtc	tcaattccta	ccacactgag	ggagcctccc	aaatcactat	attcttatct	360
gcaggctactc	ctccagaaaa	acngacaggg	caggcttgca	tgaaaaagtn	acatctgcgt	420
tacaaagtct	atcttcctca	nangtctgtn	aaggaacaat	ttaatcttct	agcttt	476

&lt;210&gt; 97

&lt;211&gt; 479

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(479)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 97

actctttcta	atgctgatat	gatcttgagt	ataagaatgc	atatgtcact	agaatggata	60
aaataatgct	gcaaaactta	tgttcttatg	caaaatggaa	cgctaatagaa	acacagctta	120
caatcgcaaa	tcaaaactca	caagtgtctca	tctgtttag	atttagtgta	ataagactta	180
gattgtgctc	cttcggatat	gattgtttct	canatcttgg	gcaatnttcc	ttagtcaaat	240
caggctacta	gaattctgtt	attggatatn	tgagagcatg	aaatttttaa	naatacactt	300
gtgattatna	aattaatcac	aaattttcact	tatacctgct	atcagcagct	agaaaaacat	360
ntnnnttttta	natcaaagta	ttttgtgttt	ggaantgttn	aaatgaaatc	tgaatgtggg	420
ttcnaatctta	ttttttcccn	gacnactant	tnctttttta	gggnctattc	tgancatc	479

&lt;210&gt; 98

&lt;211&gt; 461

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 98

agtgaacttg	cctccaacaa	aacccttga	tcaagtttgt	ggcactgaca	atcagaccta	60
tgctagtcc	tgtcatctat	tcgctactaa	atgcagactg	gaggggacca	aaaaggggca	120
tcaactccag	ctggattatt	ttggagcctg	caaactctatt	cctacttgta	cggactttga	180
agtgaattcag	tttcctctac	ggatgagaga	ctggctcaag	aatatcctca	tgacgtttta	240
tgaagccact	ctgaacacgc	tggttatcta	gatgagaaca	gagaaataaa	gtcagaaaat	300
ttacctggag	aaaagaggct	ttggctgggg	accatcccat	tgaaccttct	cttaaggact	360
ttaagaaaaa	ctaccacatg	ttgtgtatcc	tggtgccggc	cgtttatgaa	ctgaccaccc	420
tttgaataaa	tcttgacgct	cctgaacttg	ctcctctgcg	a		461

&lt;210&gt; 99

&lt;211&gt; 171

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 99

gtggccgcgc	gcagggtgtt	cctcgtagcg	cagggccccc	tcccttcccc	aggcgtccct	60
cggcgccctc	gogggcccca	ggaggagcgg	ctggcgggtg	gggggagtgt	gaccacacct	120
cggtgagaaa	agccttctct	agcgatctga	gaggcgtgcc	ttgggggtac	c	171

## 36

<210> 100  
 <211> 269  
 <212> DNA  
 <213> Homo sapien

<400> 100  
 cggccgcaag tgcaactcca gctggggccg tgcggacgaa gattctgccca gcagttgggtc 60  
 cgactgcgac gacggcgccg gcgacagtcg caggtgcagc gcgggcgcct ggggtcttgc 120  
 aaggctgagc tgacgccgca gaggtcgtgt cacgtccac gaccttgacg ccgtcgggga 180  
 cagccggaac agagcccggt gaagcgggag gcctcgggga gcccctcggg aaggcgggcc 240  
 cgagagatac gcaggtgcag gtggccgcc 269

<210> 101  
 <211> 405  
 <212> DNA  
 <213> Homo sapien

<400> 101  
 tttttttttt ttttggaaac tactgcgagc acagcaggtc agcaacaagt ttatttttgca 60  
 gctagcaagg taacagggtta gggcatgggt acatgttcag gtcaacttcc tttgtcgtgg 120  
 ttgattgggt tgtctttatg gggcggggt ggggtagggg aaacgaagca aataacatgg 180  
 agtgggtgca ccctccctgt agaacctgggt taaaaagctt ggggcagttc acctgggtctg 240  
 tgaccgtcat tttcttgaca tcaatgttat tagaagtcag gatattcttt agagagtcca 300  
 ctgttctgga gggagattag gttttcttgc caaatccaac aaaatccact gaaaaagttg 360  
 gatgatcagt acgaataccg aggcattatc tcatatcggg ggcca 405

<210> 102  
 <211> 470  
 <212> DNA  
 <213> Homo sapien

<400> 102  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60  
 ggcaacttaac ccattttttat ttcaaaatgt ctacaaatatt aatcccatta tacgggtattt 120  
 tcaaaatcta aattattcaa attagccaaa tccttaccaa ataataccca aaaatcaaaa 180  
 atatacttct ttcagcaaac ttgttacata aattaaaaaa atatatacgg ctgggtgtttt 240  
 caaagtacaa ttatcttaac actgcaaaaca ttttaaggaa ctaaaaataaa aaaaaacact 300  
 ccgcaaagggt taaaggggaac aacaaattct tttacaacac cattataaaa atcataatctc 360  
 aaatcttagg ggaatatata cttcacacgg gatcttaact tttactcact ttgtttattt 420  
 ttttaaacca ttgtttgggc ccaacacaat ggaatcccc ctggactagt 470

<210> 103  
 <211> 581  
 <212> DNA  
 <213> Homo sapien

<400> 103  
 tttttttttt ttttttttga ccccccctctt ataaaaaaca agttaccatt ttattttact 60  
 tacacatatt tattttataa ttggtatttag atattcaaaa ggcagctttt aaaatcaaac 120  
 taaatggaaa ctgccttaga tacataattc ttaggaatta gcttaaaatc tgccataaagt 180  
 gaaaatcttc tctagctctt ttgactgtaa atttttgact cttgtaaaac atocaaattc 240  
 atttttcttg tcttttaaat tatctaattc ttccattttt tccctattcc aagtcaattt 300  
 gcttctctag cctcatttcc tagctcttat ctactatttag taagtggctt ttttctctaaa 360  
 agggaaaaca ggaagagaaa tggcacacaa aacaaacatt ttatattcat atttctacct 420  
 acgttaataa aatagcattt tgtgaagcca gctcaaaaaga aggcttagat cctttttatgt 480  
 ccatttttagt cactaaacga tatcaaagtg ccagaatgca aaagggtttgt gaacatttat 540  
 tcaaaagcta atataagata tttcacatac tcatctttct g 581

<210> 104  
 <211> 578  
 <212> DNA  
 <213> Homo sapien

<400> 104  
 tttttttttt tttttttttt tttttctctt cttttttttt gaaatgagga tcgagttttt 60  
 cactctctag atagggcatg aagaaaaactc atctttccag ctttaaaata acaatcaaata 120  
 ctcttatgct atatcatatt ttaagttaaa ctaatgagtc actggcttat cttctcctga 180  
 aggaaatctg ttcattcttc tcattcatat agttatatca agtactacct tgcattattga 240  
 gaggtttttc ttctctatct acacatatat ttccatgtga atttgtatca aacctttatt 300  
 ttcatgcaaa ctagaaaata atgtttcttt tgcataagag aagagaacaa tatagcatta 360  
 caaaactgct caaattgttt gttaagttaa ccattataat tagttggcag gagctaatac 420  
 aaatcacatt tacgacagca ataataaaac tgaagtacca gttaaatatc caaataaatt 480  
 aaaggaacat ttttagcctg ggtataatta gctaattcac tttacaagca tttattagaa 540  
 tgaattcaca tgttattatt cctagcccaa cacaatgg 578

<210> 105  
 <211> 538  
 <212> DNA  
 <213> Homo sapien

<400> 105  
 tttttttttt tttttcagta ataatacagaa caatatattt ttttatattt aaaattcata 60  
 gaaaagtgcc ttacatttaa taaaagtgtt tttctcaaag tgatcagagg aattagatat 120  
 gtcttgaaca ccaatattaa tttgaggaaa atacaccaa atacattaag taaattattt 180  
 aagatcatag agcttgtaag tgaaaagata aaatttgacc tcagaaactc tgagcattaa 240  
 aaatccacta ttagcaata aattactatg gacttcttgc ttttaatttt tgatgaatat 300  
 ggggtgtcac tggtaaacca acacattctg aaggatacat tacttagtga tagattctta 360  
 tgtactttgc taatacgtgg atatgagttg acaagtttct ctttcttcaa tcttttaagg 420  
 ggcgagaaat gaggaagaaa agaaaaggat tacgcatact gttctttcta tggaaggatt 480  
 agatatgttt cctttgccaa tattaaaaaa ataataatgt ttactactag tgaaacct 538

<210> 106  
 <211> 473  
 <212> DNA  
 <213> Homo sapien

<400> 106  
 tttttttttt ttttttagtc aagtttctat ttttattata attaaagtct tggtcatttc 60  
 atttattagc tctgcaactt acatatatta attaaagaaa cgttttagac aactgtacaa 120  
 tttataaatg taagggtgcca ttattgagta atatattcct ccaagagtgg atgtgtccct 180  
 tctccaccca actaatgaac agcaacatta gtttaatttt attagtagat atacactgct 240  
 gcaaacgcta attctcttct ccatcccat gtgatattgt gtatatgtgt gagttggtag 300  
 aatgcatcac aatctacaat caacagcaag atgaagctag gctgggcttt cggtgaaaat 360  
 agaactgtgtc tgtctgaatc aaatgatctg acctatcctc ggtggcaaga actcttcgaa 420  
 ccgcttcctc aaaggcgtg ccacatttgt ggctctttgc acttgtttca aaa 473

<210> 107  
 <211> 1621  
 <212> DNA  
 <213> Homo sapien

<400> 107  
 cgccatggca ctgcagggca tctcggtoat ggagctgtcc ggctggccc cgggccggtt 60  
 ctgtgctatg gtcttggtg acttcggggg gcgtgtggtg cgcgtggacc ggcccggtc 120  
 ccgtacgac gtagccgct tgggcccggg caagcgtctg ctagtgtggt acctgaagca 180  
 gccgcccggg gccgcccgtg tgcggcgtct gtgcaagcgg tcggatgtgc tgctggagcc 240

```

cttccgccgc ggtgtcatgg agaaactcca gctgggcccc gagattctgc agcgggaaaa 300
tccaaggcctt atttatgccca ggctgagtggt atttggccag tcaggaagct tctgccgggtt 360
agctggccac gatatacaact atttggcttt gtcagggtgtt ctctcaaaaa ttggcagaag 420
tggtgagaat ccgtatgccc cgctgaatct cctggctgac tttgctggtg gtggccttat 480
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<210> 108
<211> 382
<212> PRT
<213> Homo sapien

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<400> 108
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20 25 30
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35 40 45
Gly Lys Arg Ser Leu Val Leu Asp Leu Lys Gln Pro Arg Gly Ala Ala
50 55 60
Val Leu Arg Arg Leu Cys Lys Arg Ser Asp Val Leu Leu Glu Pro Phe
65 70 75 80
Arg Arg Gly Val Met Glu Lys Leu Gln Leu Gly Pro Glu Ile Leu Gln
85 90 95
Arg Glu Asn Pro Arg Leu Ile Tyr Ala Arg Leu Ser Gly Phe Gly Gln
100 105 110
Ser Gly Ser Phe Cys Arg Leu Ala Gly His Asp Ile Asn Tyr Leu Ala
115 120 125
Leu Ser Gly Val Leu Ser Lys Ile Gly Arg Ser Gly Glu Asn Pro Tyr
130 135 140
Ala Pro Leu Asn Leu Leu Ala Asp Phe Ala Gly Gly Leu Met Cys
145 150 155 160
Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys
165 170 175
Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser
180 185 190
Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg
195 200 205
Gly Gln Asn Met Leu Asp Gly Gly Ala Pro Phe Tyr Thr Thr Tyr Arg

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## 39

210	215	220
Thr Ala Asp Gly Glu Phe Met Ala Val Gly Ala Ile Glu Pro Gln Phe		
225	230	235
Tyr Glu Leu Leu Ile Lys Gly Leu Gly Leu Lys Ser Asp Glu Leu Pro		240
	245	250
Asn Gln Met Ser Met Asp Asp Trp Pro Glu Met Lys Lys Lys Phe Ala		255
	260	265
Asp Val Phe Ala Lys Lys Thr Lys Ala Glu Trp Cys Gln Ile Phe Asp		270
	275	280
Gly Thr Asp Ala Cys Val Thr Pro Val Leu Thr Phe Glu Glu Val Val		285
	290	295
His His Asp His Asn Lys Glu Arg Gly Ser Phe Ile Thr Ser Glu Glu		300
305	310	315
Gln Asp Val Ser Pro Arg Pro Ala Pro Leu Leu Leu Asn Thr Pro Ala		320
	325	330
Ile Pro Ser Phe Lys Arg Asp Pro Phe Ile Gly Glu His Thr Glu Glu		335
	340	345
Ile Leu Glu Glu Phe Gly Phe Ser Arg Glu Glu Ile Tyr Gln Leu Asn		350
	355	360
Ser Asp Lys Ile Ile Glu Ser Asn Lys Val Lys Ala Ser Leu		365
370	375	380

<210> 109  
 <211> 1524  
 <212> DNA  
 <213> Homo sapien

<400> 109

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<210> 110  
 <211> 3410  
 <212> DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 110

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## 41

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa 3410

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 <211> 1289  
 <212> DNA  
 <213> Homo sapien

<400> 111  
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 ccatgcagtg cttcagcttc attaaagacca tgatgatcct cttcaatttg ctcatctttc 180  
 tgtgtggtgc agccctgttg gcagtgggca tctgggtgtc aatcgatggg gcatcctttc 240  
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 aagtgaatc agcagagcct ctgggtggat gtgtagaagg cacttcaaaa tgcataaacc 1260  
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<210> 112  
 <211> 315  
 <212> PRT  
 <213> Homo sapien

<400> 112  
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 20 25 30  
 Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala  
 35 40 45  
 Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu  
 50 55 60  
 Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro  
 65 70 75 80  
 Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser  
 85 90 95  
 Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala Gly Thr Cys  
 100 105 110  
 Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Leu Val Ile Phe  
 115 120 125  
 Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile Ala Met Phe  
 130 135 140  
 Ser Tyr Thr Phe Gly Lys Val Gln Gly Asn Ser Asp Leu Tyr Trp Lys  
 145 150 155 160

42

Ala Gln Arg Tyr Arg Leu Ile Arg Glu Phe His Ser Arg Pro Ala Leu  
 165 170 175  
 Ala Pro Pro Phe Ile Val Ile Ser His Leu Arg Leu Leu Leu Arg Gln  
 180 185 190  
 Leu Cys Arg Arg Pro Arg Ser Pro Gln Pro Ser Ser Pro Ala Leu Glu  
 195 200 205  
 His Phe Arg Val Tyr Leu Ser Lys Glu Ala Glu Arg Lys Leu Leu Thr  
 210 215 220  
 Trp Glu Ser Val His Lys Glu Asn Phe Leu Leu Ala Arg Ala Arg Asp  
 225 230 235 240  
 Lys Arg Glu Ser Asp Ser Glu Arg Leu Lys Arg Thr Ser Gln Lys Val  
 245 250 255  
 Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr Glu Gln Arg  
 260 265 270  
 Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg Val Leu Gly  
 275 280 285  
 Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro Pro Gly Gly  
 290 295 300  
 Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp  
 305 310 315

<210> 113  
 <211> 553  
 <212> PRT  
 <213> Homo sapien

<400> 113  
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 20 25 30  
 Ala Ala Gly Ile Thr Tyr Val Pro Leu Leu Leu Glu Val Gly Val  
 35 40 45  
 Glu Glu Lys Phe Met Thr Met Val Leu Gly Ile Gly Pro Val Leu Gly  
 50 55 60  
 Leu Val Cys Val Pro Leu Leu Gly Ser Ala Ser Asp His Trp Arg Gly  
 65 70 75 80  
 Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp Ala Leu Ser Leu Gly Ile  
 85 90 95  
 Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala Gly Trp Leu Ala Gly Leu  
 100 105 110  
 Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu Ala Leu Leu Ile Leu Gly  
 115 120 125  
 Val Gly Leu Leu Asp Phe Cys Gly Gln Val Cys Phe Thr Pro Leu Glu  
 130 135 140  
 Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg Gln Ala  
 145 150 155 160  
 Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu Gly Gly Cys Leu Gly Tyr  
 165 170 175  
 Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu  
 180 185 190  
 Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu  
 195 200 205  
 Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly  
 210 215 220  
 Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His  
 225 230 235 240  
 Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu

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Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg
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Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe
                275                280                285
Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val
                290                295                300
Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
305                310                315                320
Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu
                325                330                335
Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg
                340                345                350
Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala
                355                360                365
Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
                370                375                380
Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala
385                390                395                400
Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly
                405                410                415
Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu
                420                425                430
Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala
                435                440                445
Gly Gly Ser Gly Leu Leu Pro Pro Pro Ala Leu Cys Gly Ala Ser
                450                455                460
Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala
465                470                475                480
Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
                485                490                495
Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser
                500                505                510
Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala
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Lys Ser Asp Leu Ala Lys Tyr Ser Ala
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<210> 114
<211> 241
<212> PRT
<213> Homo sapien

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<400> 114
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20      25      30
Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser
35      40      45
Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly
50      55      60
Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr
65      70      75      80
Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Phe Ile Leu Leu Leu Ile
85      90      95

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Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val Tyr Thr Thr  
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 Met Ala Glu His Phe Leu Thr Leu Leu Val Val Pro Ala Ile Lys Lys  
                   115                  120                  125  
 Asp Tyr Gly Ser Gln Glu Asp Phe Thr Gln Val Trp Asn Thr Thr Met  
                   130                  135                  140  
 Lys Gly Leu Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp  
                   145                  150                  155                  160  
 Ser Pro Tyr Phe Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn  
                   165                  170                  175  
 Asp Asn Val Thr Asn Thr Ala Asn Glu Thr Cys Thr Lys Gln Lys Ala  
                   180                  185                  190  
 His Asp Gln Lys Val Glu Gly Cys Phe Asn Gln Leu Leu Tyr Asp Ile  
                   195                  200                  205  
 Arg Thr Asn Ala Val Thr Val Gly Gly Val Ala Ala Gly Ile Gly Gly  
                   210                  215                  220  
 Leu Glu Leu Ala Ala Met Ile Val Ser Met Tyr Leu Tyr Cys Asn Leu  
                   225                  230                  235                  240  
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<210> 115  
 <211> 366  
 <212> DNA  
 <213> Homo sapien

<400> 115  
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 catttcaactg tgatgtatat tgtgttgcaa aaaaaaaaaa gtgtctttgt ttaaaattac 120  
 ttggtttgtg aatccatctt gctttttccc catttggaact agtcattaac ccatctctga 180  
 actggttagaa aaacatctga agagctagtc tatcagcatc tgacagggtga attggatggg 240  
 tctcagaacc atttcaccca gacagcctgt ttctatcctg ttttaataaat tagtttgggt 300  
 tctctacatg cataacaaac cctgctccaa tctgtcacat aaaagtctgt gacttgaagt 360  
 ttagtc 366

<210> 116  
 <211> 282  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(282)  
 <223> n = A,T,C or G

<400> 116  
 acaaagatga accatttcct atattatagc aaaattaaaa tctacccgta ttctaattatt 60  
 gagaaatgag atnaaacaca atnttataaa gtctacttag agaagatcaa gtgacctcaa 120  
 agactttact attttcatat ttttaagacac atgattttatc ctatttttagt aacctgggtc 180  
 atacgttaaa caaaggataa tgtgaacagc agagaggatt tgttggcaga aaatctatgt 240  
 tcaatctnga actatctana tcacagacat ttctattcct tt 282

<210> 117  
 <211> 305  
 <212> DNA  
 <213> Homo sapien

<220>

45

<221> misc\_feature  
 <222> (1)...(305)  
 <223> n = A,T,C or G

<400> 117  
 acacatgtcg cttcactgcc ttcttagatg cttctggtca acatanagga acagggacca 60  
 tattttatcct ccctcctgaa acaattgcaa aataanacaa aatatatgaa acaattgcaa 120  
 aataaggcaa aatatatgaa acaacaggtc tcgagatatt ggaaatcagt caatgaagga 180  
 tactgatccc tgatcactgt cctaattgcag gatgtgggaa acagatgagg tcacctctgt 240  
 gactgccccca gcttactgcc tgtagagagt ttctangctg cagttcagac agggagaaat 300  
 tgggt 305

<210> 118  
 <211> 71  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(71)  
 <223> n = A,T,C or G

<400> 118  
 accaaggtgt ntgaatctct gacgtgggga tctctgattc ccgcacaatc tgagtggaaa 60  
 aantcctggg t 71

<210> 119  
 <211> 212  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(212)  
 <223> n = A,T,C or G

<400> 119  
 actccggttg gtgtcagcag cacgtggcat tgaacatngc aatgtggagc ccaaaccaca 60  
 gaaaatgggg tgaaattggc caactttcta tnaacttatg ttggcaantt tgccaccaac 120  
 agtaagctgg cccttctaataaaaagaaaat tgaaaggttt ctactaanc ggaattaant 180  
 aatggantca aganactccc aggcctcagc gt 212

<210> 120  
 <211> 90  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(90)  
 <223> n = A,T,C or G

<400> 120  
 actcgttgca natcaggggc cccccagagt caccgttgca ggagtccttc tgggtcttgcc 60  
 ctccgccggc gcagaacatg ctggggtggg 90

<210> 121  
 <211> 218

46

<212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(218)  
 <223> n = A,T,C or G

<400> 121  
 tgtancgtga anacgacaga naggggtgtc aaaaatggag aanccttgaa gtcattttga 60  
 gaataagatt tgctaaaaga tttggggcta aaacatgggtt attgggagac atttctgaag 120  
 atatncangt aaattangga atgaattcat ggttcttttg ggaattcctt tacgatngcc 180  
 agcatanact tcatgtgggg atancagcta cccttgta 218

<210> 122  
 <211> 171  
 <212> DNA  
 <213> Homo sapien

<400> 122  
 taggggtgta tgcaactgta aggacaaaaa ttgagactca actggcttaa ccaataaagg 60  
 catttgtag ctcatggaac aggaagtcgg atggtggggc atcttcagtg ctgcatgagt 120  
 caccaccccg ggggggtcat ctgtgccaca ggtccctggt gacagtgcgg t 171

<210> 123  
 <211> 76  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(76)  
 <223> n = A,T,C or G

<400> 123  
 tgtagcgtga agacnacaga atggtgtgtg ctgtgctatc caggaacaca tttattatca 60  
 ttatcaanta ttgtgt 76

<210> 124  
 <211> 131  
 <212> DNA  
 <213> Homo sapien

<400> 124  
 acctttcccc aaggccaatg tcctgtgtgc taactggccg gctgcaggac agctgcaatt 60  
 caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120  
 ttaagatttg t 131

<210> 125  
 <211> 432  
 <212> DNA  
 <213> Homo sapien

<400> 125  
 actttatcta ctggctatga aatagatggt ggaaaattgc gttaccaact ataccactgg 60  
 cttgaaaaag aggtgatagc tcttcagagg acttgtgact tttgctcaga tgctgaagaa 120  
 ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat 180  
 ttgcctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg 240



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```

ctcttgaagt atcagtcact tttgagaatg tttcttagtt actgcatact tcatggatcc 300
catggtgggg gtcttgcatac tgtaagaatg gaattgattt tgcttttgca agaattctcag 360
caggaaacat cagaaccact attttctagc cctctgtcag agcaaaccctc agtgcctctc 420
ctctttgctt gt 432

```

```

<210> 126
<211> 112
<212> DNA
<213> Homo sapien

```

```

<400> 126
acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat 60
agtaagaatg atatttcccc ccagggatca ccaaatattt ataaaaattt gt 112

```

```

<210> 127
<211> 54
<212> DNA
<213> Homo sapien

```

```

<400> 127
accacgaaac cacaacaag atggaagcat caatccactt gccaaagcaca gcag 54

```

```

<210> 128
<211> 323
<212> DNA
<213> Homo sapien

```

```

<400> 128
acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc 60
acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca 120
ttctctctga agtctagggt acccattttg gggacccatt ataggcaata aacacagttc 180
ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcctttt tcttagcctt 240
ttcctgcaaa aggctcactc agtcccttgc ttgctcagtg gactggggtc cccagggcct 300
aggctgcctt cttttccatg tcc 323

```

```

<210> 129
<211> 192
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(192)
<223> n = A,T,C or G

```

```

<400> 129
acatacatgt gtgtatatattt ttaaatatca cttttgtatc actctgactt tttagcatac 60
tgaaaacaca ctaacataat ttntgtgaac catgatcaga tacaacccaa atcattcatc 120
tagcacattc atctgtgata naaagatagg tgagtttcat ttccttcacg ttggccaatg 180
gataaacaaa gt 192

```

```

<210> 130
<211> 362
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

48

<222> (1)...(362)  
 <223> n = A,T,C or G

<400> 130  
 cccttttttta tggaatgagt agactgtatg tttgaanatt tanccacaac ctcttttgaca 60  
 tataatgacg caacaaaaag gtgctgttta gtcctatggg tcagtttatg cccctgacaa 120  
 gtttccattg tgttttgccg atcttctggc taatcgtggg atcctccatg ttattagtaa 180  
 ttctgtattc cattttgtta acgcctggta gatgtaacct gctangaggc taactttata 240  
 cttattttaa agctcttatt ttgtgggcat taaaatggca atttatgtgc agcactttat 300  
 tgcagcagga agcacgtgtg gggtgggtgt aaagctcttt gctaattctta aaaagtaatg 360  
 gg 362

<210> 131  
 <211> 332  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(332)  
 <223> n = A,T,C or G

<400> 131  
 ctttttgaaa gatcgtgtcc actcctgtgg acatcttgtt ttaatggagt ttcccatgca 60  
 gtangactgg tatggttgca gctgtccaga taaaaacatt tgaagagctc caaaatgaga 120  
 gttctcccag gttcgccctg ctgctccaag tctcagcagc agcctctttt aggaggcatc 180  
 ttctgaacta gattaaggca gcttgtaa atctgatgtat ttggtttatt atccaactaa 240  
 cttccatctg ttatcactgg agaaagccca gactccccan gacnggtacg gattgtgggc 300  
 atanaaggat tgggtgaagc tggcggtgtg gt 332

<210> 132  
 <211> 322  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(322)  
 <223> n = A,T,C or G

<400> 132  
 acttttgcca ttttgtatat ataaacaatc ttgggacatt ctctgaaaa ctaggtgtcc 60  
 agtggctaag agaactcgat ttcaagcaat tctgaaagga aaaccagcat gacacagaat 120  
 ctcaaattcc caaacagggg ctctgtggga aaaatgaggg aggacctttg tatctcgggt 180  
 tttagcaagt taaaatgaan atgacaggaa aggcttattt atcaacaaag agaagagttg 240  
 ggatgcttct aaaaaaaact ttggtagaga aaataggaat gctnaatcct aggggaagcct 300  
 gtaacaatct acaattggtc ca 322

<210> 133  
 <211> 278  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(278)  
 <223> n = A,T,C or G

<400> 133  
 acaagccttc acaagtttaa ctaaattggg attaatcttt ctgtanttat ctgcataatt 60  
 cttgtttttc tttccatctg gtccttggt tgacaatttg tggaaacaac tctattgcta 120  
 ctatttaaaa aaaatcacaa atctttccct ttaagctatg ttnaattcaa actattcctg 180  
 ctattcctgt tttgtcaaag aaattatatt tttcaaaata tgtntatttg tttgatgggt 240  
 cccacgaaac actaataaaa accacagaga ccagcctg 278

<210> 134  
 <211> 121  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(121)  
 <223> n = A,T,C or G

<400> 134  
 gtttanaaaa cttgttttagc tccatagagg aaagaatggt aaactttgta ttttaaaaca 60  
 tgattctctg aggttaaact tggttttcaa atgttatatt tacttgtatt ttgcttttgg 120  
 t 121

<210> 135  
 <211> 350  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(350)  
 <223> n = A,T,C or G

<400> 135  
 acttanaacc atgcctagca catcagaatc cctcaaagaa catcagtata atcctataacc 60  
 atancaagtg gtgactgggt aagcgtgcga caaaggctcag ctggcacatt acttggtgtgc 120  
 aaacttgata cttttgttct aagtaggaac tagtatacag tncctaggan tgggtactcca 180  
 ggggtgcccc caactcctgc agccgctcct ctgtgccagn ccctgnaagg aactttcgct 240  
 ccacctcaat caagccctgg gccatgctac ctgcaattgg ctgaacaaac gtttgctgag 300  
 ttcccaagga tgcaaagcct ggtgctcaac tcctggggcg tcaactcagt 350

<210> 136  
 <211> 399  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(399)  
 <223> n = A,T,C or G

<400> 136  
 tgtaccgtga agacgacaga agttgcatgg cagggacagg gcagggccga ggccaggggt 60  
 gctgtgattg tatccgaata ntcctcgtga gaaaagataa tgagatgacg tgagcagcct 120  
 gcagacttgt gtctgccttc aanaagccag acaggaaggc cctgcctgcc ttgggtctga 180  
 cctggcggcc agccagccag ccacaggtgg gottcttcct tttgtggtga caacnccaag 240  
 aaaactgcag aggccaggg tcaggtgtna gtgggtangt gaccataaaa caccaggtgc 300  
 tcccaggaac ccgggcaaag gccatcccca cctacagcca gcatgcccac tggcgtgatg 360  
 ggtgcagang gatgaagcag ccagntgttc tgctgtggt 399

## 50

<210> 137  
 <211> 165  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(165)  
 <223> n = A,T,C or G

<400> 137  
 actggtgtgg tnggggggtga tgctggtggt anaagttgan gtgacttcan gatggtgtgt 60  
 ggaggaagtg tgtgaacgta gggatgtaga ngttttggcc gtgctaaatg agcttcggga 120  
 ttggctggtc ccactgggtg tcactgtcat tgggtggggtt cctgt 165

<210> 138  
 <211> 338  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(338)  
 <223> n = A,T,C or G

<400> 138  
 actcactgga atgccacatt cacaacagaa tcagaggtct gtgaaaacat taatggctcc 60  
 ttaactttctc cagtaagaat cagggacttg aaatggaaac gttaacagcc acatgcccaa 120  
 tgctgggcag tctcccatgc cttccacagt gaaagggctt gagaaaaatc acatccaatg 180  
 tcatgtgttt ccagccacac caaaaggtgc ttgggggtgga gggctggggg catananggt 240  
 cangcctcag gaagcctcaa gttccattca gctttgccac tgtacattcc ccatntttaa 300  
 aaaaactgat gccttttttt tttttttttt taaaattc 338

<210> 139  
 <211> 382  
 <212> DNA  
 <213> Homo sapien

<400> 139  
 gggaatcttg gtttttggca tctggtttgc ctatagccga ggccactttg acagaacaaa 60  
 gaaagggact tcgagtaaga aggtgattta cagccagcct agtgcccgaa gtgaaggaga 120  
 attcaaacag acctcgatcat tcctggtgtg agcctggctg gctcaccgcc tatcatctgc 180  
 atttgcctta ctcaggtgct accggactct ggcccctgat gtctgtagtt tcacaggatg 240  
 ccttattttgt cttctacacc ccacagggcc ccctacttct tcggatgtgt ttttaataat 300  
 gtcagctatg tgccccatcc tccttcatgc cctccctccc tttcctacca ctgctgagtg 360  
 gcctggaact tgtttaaagt gt 382

<210> 140  
 <211> 200  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(200)  
 <223> n = A,T,C or G

<400> 140  
 accaaaanctt ctttctgttg tgttngattt tactataggg gtttngcttn ttctaaanat 60  
 acttttcat taaacncttt tgtaagtgt caggctgcac tttgctccat anaattattg 120  
 ttttcacatt tcaacttgta tgtgtttgtc tcttanagca ttggtgaaat cacatatattt 180  
 atattcagca taaaggagaa 200

<210> 141  
 <211> 335  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(335)  
 <223> n = A,T,C or G

<400> 141  
 actttatttt caaaacactc atatgttgca aaaaacacat agaaaaataa agtttggtgg 60  
 ggggtgctgac taaacttcaa gtcacagact tttatgtgac agattggagc agggtttgtt 120  
 atgcatgtag agaaccctaaa ctaatttatt aaacaggata gaaacaggct gtctgggtga 180  
 aatgggttctg agaaccatcc aattcacctg tcagatgctg atanactagc tcttcagatg 240  
 tttttctacc agttcagaga tnggttaatg actanttcca atgggggaaaa agcaagatgg 300  
 attcacaac caagtaattt taaacaaaga cactt 335

<210> 142  
 <211> 459  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(459)  
 <223> n = A,T,C or G

<400> 142  
 accagggttaa tattgccaca tatatccttt ccaattgcgg gctaaacaga cgtgtattta 60  
 ggggtgttta aagacaaccc agcttaatat caagagaaat tgtgaccttt catggagtat 120  
 ctgatggaga aaacactgag ttttgacaaa tcttatttta ttcagatagc agtctgatca 180  
 cacatgggtcc aacaacactc aaataataaa tcaaatatna tcagatgtta aagattggtc 240  
 ttcaaacatc atagccaatg atgccccgct tgccataat ctctccgaca taaaaccaca 300  
 tcaacacctc agtggccacc aaaccattca gcacagcttc cttaactgtg agctgtttga 360  
 agctaccagt ctgagcacta ttgactatnt ttttcangct ctgaatagct ctagggatct 420  
 cagcanggggt gggaggaacc agctcaacct tggcggtant 459

<210> 143  
 <211> 140  
 <212> DNA  
 <213> Homo sapien

<400> 143  
 acatttcttt ccaccaagtc aggactcctg gcttctgtgg gagttcttat cacctgaggg 60  
 aaatccaaac agtctctcct agaaaggaat agtgtcacca accccaccca tctccctgag 120  
 accatccgac ttcctgtgt 140

<210> 144  
 <211> 164  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(164)  
 <223> n = A,T,C or G

<400> 144  
 acttcagtaa caacatacaa taacaacatt aagtgtatat tgccatcttt gtcattttct 60  
 atctatacca ctctcccttc tgaaaacaan aatcactanc caatcactta tacaaatttg 120  
 aggcaattaa tccatatttg ttttcaataa ggaaaaaaag atgt 164

<210> 145  
 <211> 303  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(303)  
 <223> n = A,T,C or G

<400> 145  
 acgtagacca tccaactttg tatttgtaat ggcaaacatc cagnagcaat tcctaaacaa 60  
 actggagggt atttataccc aattatccca ttcattaaca tgccctcctc ctcaggctat 120  
 gcaggacagc tatcataagt cggcccaggc atccagatac taccatttgt ataaacttca 180  
 gtaggggagt ccatccaagt gacaggtcta atcaaaggag gaaatggaac ataagcccag 240  
 tagtaaaatn ttgcttagct gaaacagcca caaaagactt accgccgtgg tgattaccat 300  
 caa 303

<210> 146  
 <211> 327  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(327)  
 <223> n = A,T,C or G

<400> 146  
 actgcagctc aattagaagt ggtctctgac tttcatcanc ttctccctgg gtcctatgac 60  
 actggcctgg agtgactcat tgctctgggt gggtgagaga gctcctttgc caacaggcct 120  
 ccaagtcagg gctgggattt gtttcccttc cacattctag caacaatatg ctggccactt 180  
 cctgaacagg gaggggtgga ggagccagca tggaacaagc tgccactttc taaagtagcc 240  
 agacttgccc ctgggcctgt cacacctact gatgaccttc tgtgcctgca ggatggaatg 300  
 taggggtgag ctgtgtgact ctatggt 327

<210> 147  
 <211> 173  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(173)  
 <223> n = A,T,C or G

<400> 147

## 53

```

acattgtttt tttagataa agcattgana gagctctcct taacgtgaca caatggaagg      60
actggaacac ataccacat ctttgttctg agggataatt ttctgataaa gtcttgctgt      120
atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gtt             173

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```

<210> 148
<211> 477
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G

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<400> 148
acaaccactt tatctcatcg aatttttaac ccaaactcac tcactgtgcc tttctatcct      60
atgggatata ttatttgatg ctccatttca tcacacatat atgaataata cactcatact      120
gccctactac ctgctgcaat aatcacattc ccttcctgtc ctgaccctga agccattggg      180
gtggctcctag tggccatcag tccangcctg caccttgagc ccttgagctc cattgctcac      240
nccanccac ctcaccgacc ccatcctctt acacagctac ctcccttgct tctaacccca      300
tagattatnt ccaaattcag tcaattaagt tactattaac actctacccg acatgtccag      360
caccactggt aagccttctc cagccaacac acacacacac acacncacac acacacatat      420
ccaggcacag gctacctcat cttcacaatc acccctttaa ttaccatgct atggtgg       477

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```

<210> 149
<211> 207
<212> DNA
<213> Homo sapien

```

```

<400> 149
acagttgtat tataatatca agaaataaac ttgcaatgag agcatttaag agggaagaac      60
taacgtatatt tagagagcca aggaaggttt ctgtgggggag tgggatgtaa ggtggggcct      120
gatgataaat aagagtcagc caggtaagtg ggtggtgtgg tatgggcaca gtgaagaaca      180
tttcaggcag agggaacagc agtgaaa                                207

```

```

<210> 150
<211> 111
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(111)
<223> n = A,T,C or G

```

```

<400> 150
accttgatatt cattgctgct ctgatggaaa cccaactatc taatttagct aaaacatggg      60
cacttaaagt tggtcagtgt ttggacttgt taactantgg catctttggg t             111

```

```

<210> 151
<211> 196
<212> DNA
<213> Homo sapien

```

```

<400> 151
agcgcggcag gtcatatattga acattccaga tacctatcat tactcgatgc tgttgataac      60
agcaagatgg ctttgaactc agggtcacca ccagctattg gaccttacta tgaaaaccat      120
ggataccaac cggaaaaccc ctatcccgca cagcccaactg tgggtcccccac tgtctacgag      180

```

gtgcatccgg ctcaagt 196

<210> 152  
<211> 132  
<212> DNA  
<213> Homo sapien

<400> 152  
acagcacttt cacatgtaag aaggaggaaa ttcctaaatg taggagaaaag ataacagaaac 60  
cttccccctt tcatctagtgt gtggaaacct gatgctttat gttgacagga atagaaccag 120  
gaggagagttt gt 132

<210> 153  
<211> 285  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(285)  
<223> n = A,T,C or G

<400> 153  
acaanaccca nganaggcca ctggccgtgg tgtcatggcc tccaaacatg aaagtgtcag 60  
cttctgtctt tatgtcctca tctgacaact ctttaccatt tttatcctcg ctacagcagga 120  
gcacatcaat aaagtccaaa gtcttggact tggccttggc ttggaggaag tcatcaacac 180  
cctggctagt gaggggtgcgg cgccgctcct ggatgacggc atctgtgaag tcgtgcacca 240  
gtctgcaggc cctgtggaag cgccgtccac acggagtnag gaatt 285

<210> 154  
<211> 333  
<212> DNA  
<213> Homo sapien

<400> 154  
accacagtcc tggtgggcca gggcttcatg accctttctg tgaaaagcca tattatcacc 60  
accccaaatt tttccttaaa tatctttaac tgaaggggtc agcctcttga ctgcaaagac 120  
cctaagccgg ttacacagct aactcccact ggccctgatt tgtgaaattg ctgctgcctg 180  
attggcacag gagtgcgaagg tggtcagctc ccctcctcgg tggaaacgaga ctctgatttg 240  
agtttcacaa attctcgggc caccctcgta ttgctcctct gaaataaaat ccggagaatg 300  
gtcaggcctg tctcatccat atggatcttc cgg 333

<210> 155  
<211> 308  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(308)  
<223> n = A,T,C or G

<400> 155  
actggaaata ataaaaccca catcacagtgt ttgtgtcaaa gatcatcagg gcatggatgg 60  
gaaagtgtct tggaactgt aaagtgccta acacatgatc gatgatTTTT gttataatat 120  
ttgaatcacg gtgcatacaa actctcctgc ctgctcctcc tgggccccag cccagcccc 180  
atcacagctc actgctctgt tcatccaggc ccagcatgta gtggtgatt cttcttggct 240  
gcttttagcc tccanaagtt tctctgaagc caaccaaacc tctangtgta aggcagctgt 300



gccctggt 308

<210> 156  
 <211> 295  
 <212> DNA  
 <213> Homo sapien

<400> 156  
 accttgctcg gtgcttgga catattagga actcaaaata tgagatgata acagtgccta 60  
 ttattgatta ctgagagaa tgtagacat ttagttgaag attttctaca caggaaactga 120  
 gaataggaga ttatgttttg ccctcatatt ctctcctatc ctcttgcct cattctatgt 180  
 ctaatatatt ctcaatcaaa taaggtttagc ataatcagga aatcgaccaa ataccaatat 240  
 aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat 295

<210> 157  
 <211> 126  
 <212> DNA  
 <213> Homo sapien

<400> 157  
 acaagttaa atagtgtgt cactgtgcat gtgctgaaat gtgaaatcca ccacatttct 60  
 gaagagcaaa acaaattctg tcatgtaatc tctatcttgg gtcgtgggta tatctgtccc 120  
 cttagt 126

<210> 158  
 <211> 442  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(442)  
 <223> n = A,T,C or G

<400> 158  
 acccactggt cttggaaaca cccatcctta atacgatgat ttttctgtcg tgtgaaaatg 60  
 aanccagcag gctgccccta gtcagtcctt ccttcagag aaaaagagat ttgagaaagt 120  
 gcctgggtaa ttaccatta atttctctcc ccaaactctc tgagtcttcc cttaatatgt 180  
 ctggtggttc tgaccaaagc aggtcatggt ttgttgagca tttgggatcc cagtgaagta 240  
 natgtttgta gccttgcata cttagccctt cccacgcaca aacggagtgg cagagtgggtg 300  
 ccaaccctgt tttccagtc cacgtagaca gattcacagt gcggaattct ggaagctgga 360  
 nacagacggg ctctttgcag agccgggact ctgagangga catgagggcc tctgcctctg 420  
 tgttcattct ctgatgtcct gt 442

<210> 159  
 <211> 498  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(498)  
 <223> n = A,T,C or G

<400> 159  
 acttccaggt aacgttgttg tttccgttga gcctgaactg atgggtgacg ttgtaggttc 60  
 tccaacaaga actgaggttg cagagcgggt aggggaagagt gctgttccag ttgcacctgg 120  
 gctgctgtgg actgttgttg attcctcaact acggcccaag gttgtggaac tggcanaaag 180

```

gtgtgtttgtt ggantttagc tcggggcggt gtggttaggt gtgggctctt caacaggggc 240
tgctgtggtg ccgggangtg aangtggtgt gtcacttgag cttggccagc tctggaaagt 300
antanattct tcctgaaggc cagcgcttgt ggagctggca ngggtcantg ttgtgtgtaa 360
cgaaccagtg ctgctgtggg tgggtgtana tcctccacaa agcctgaagt tatggtgtcn 420
tcaggtaana atgtggtttc agtgtccctg ggcngctgtg gaaggttgta nattgtcacc 480
aagggaataa gctgtggt 498

```

```

<210> 160
<211> 380
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(380)
<223> n = A,T,C or G

```

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<400> 160
acctgcatcc agcttccctg ccaaactcac aaggagacat caacctctag acagggaaac 60
agcttcagga tacttccagg agacagagcc accagcagca aaacaaatat tcccatgcct 120
ggagcatggc atagaggaag ctganaaatg tggggtctga ggaagccatt tgagtctggc 180
cactagacat ctcatcagcc acttgtgtga agagatgccc catgacccca gatgcctctc 240
ccacccttac ctccatctca cacacttgag ctttccactc tgtataattc taacatcctg 300
gagaaaaatg gcagtttgac cgaacctgtt cacaacggta gaggctgatt tctaacgaaa 360
cttgtagaat gaagcctgga 380

```

```

<210> 161
<211> 114
<212> DNA
<213> Homo sapien

```

```

<400> 161
actccacatc ccctctgagc aggcggttgt cgttcaaggt gtatttggcc ttgcctgtca 60
cactgtccac tggcccctta tccacttggt gcttaatccc tcgaaagagc atgt 114

```

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<210> 162
<211> 177
<212> DNA
<213> Homo sapien

```

```

<400> 162
actttctgaa tcgaatcaaa tgatacttag tgtagtttta atatcctcat atatatcaaa 60
gttttaactac tctgataatt ttgtaaacca ggtaaccaga acatccagtc atacagcttt 120
tggtgatata taacttggca ataaccagc ctggtgatac ataaaactac tcactgt 177

```

```

<210> 163
<211> 137
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(137)
<223> n = A,T,C or G

```

```

<400> 163
catttatata gacaggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtagc 60
canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt 120

```

catcagcggc atgatgt 137

<210> 164  
 <211> 469  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(469)  
 <223> n = A,T,C or G

<400> 164  
 cttatcacaa tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta 60  
 tgcaatgcat catgctatatt catacctaata gagggagttc caggagattc aaccaggaaa 120  
 tgcattggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt 180  
 gagacatgca cttgctacga aacagaaatt tcatgttgca cccttgtttc tacacctgtg 240  
 ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg 300  
 gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct 360  
 tctagtaggc acagggctcc caggccaggc ctcattctcc tctggcctct aatagtcaat 420  
 gattgtgtag ccattgcctat cagtaaaaag atntttgagc aaacacttt 469

<210> 165  
 <211> 195  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(195)  
 <223> n = A,T,C or G

<400> 165  
 acagtttttt atatatatcg acattgccgg cacttgtgtt cagtttcata aagctgggtgg 60  
 atccgctgtc atccactatt ccttggctag agtaaaaatt attcttatag cccatgtccc 120  
 tgcaggccgc ccgcccgtag ttctcgttcc agtcgtcttg gcacacaggg tgccaggact 180  
 tcctctgaga tgagt 195

<210> 166  
 <211> 383  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(383)  
 <223> n = A,T,C or G

<400> 166  
 acatcttagt agtgtggcac atcagggggc catcagggtc acagtcactc atagcctcgc 60  
 cgaggtcgga gtccacacca ccggtgtagg tgtgctcaat cttgggcttg gcgcccacct 120  
 ttggagaagg gatattgctgc acacacatgt ccacaaagcc tgtgaactcg ccaaagaatt 180  
 tttgcagacc agcctgagca aggggcggat gttcagcttc agctcctcct tcgtcaggtg 240  
 gatgccaacc tcgtctangg tccgtgggaa gctgggtgtc acntcaccta caacctgggc 300  
 gangatctta taaagaggct ccnagataaa ctccacgaaa cttctctggg agctgctagt 360  
 nggggccttt ttggtgaact ttc 383

<210> 167

<211> 247  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(247)  
 <223> n = A,T,C or G

<400> 167  
 acagagccag accttggcca taaatgaanc agagattaag actaaacccc aagtcganat 60  
 tggagcagaa actggagcaa gaagtgggcc tggggctgaa gtagagacca aggccactgc 120  
 tatanccata cacagagcca actctcaggc caaggcnatg gttggggcag anccagagac 180  
 tcaatctgan tccaaagtgg tggctggaac actggtcatg acanaggcag tgactctgac 240  
 tgangtc 247

<210> 168  
 <211> 273  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(273)  
 <223> n = A,T,C or G

<400> 168  
 acttctaagt tttctagaag tggaaggatt gtantcatcc tgaaaatggg tttacttcaa 60  
 aatccctcan ccttggttctt cacnactgtc tatactgana gtgtcatggt tccacaaagg 120  
 gctgacacct gagcctgnat tttcactcat ccctgagaag ccctttccag taggggtgggc 180  
 aattcccaac ttccttgcca caagcttccc aggctttctc ccctggaaaa ctccagcttg 240  
 agtcccagat acactcatgg gctgccctgg gca 273

<210> 169  
 <211> 431  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(431)  
 <223> n = A,T,C or G

<400> 169  
 acagccttgg cttcccaaaa ctccacagtc tcagtgcaga aagatcatct tccagcagtc 60  
 agctcagacc aggggtcaaag gatgtgacat caacagtttc tggtttcaga acaggttcta 120  
 ctactgtcaa atgacccccc atacttcttc aaaggctgtg gtaagttttg cacagggtgag 180  
 ggcagcagaa aggggggtant tactgatgga caccatcttc tctgtatact ccaactgac 240  
 cttgccatgg gcaaaggccc ctaccacaaa aacaatagga tcaactgctgg gcaccagctc 300  
 acgcacatca ctgacaaccg ggatggaaaa agaantgcc aactttcatac atccaactgg 360  
 aaagtgatct gatactggat tottaattac cttcaaaagc ttctgggggc catcagctgc 420  
 tcgaacactg a 431

<210> 170  
 <211> 266  
 <212> DNA  
 <213> Homo sapien

59

<220>  
 <221> misc\_feature  
 <222> (1)...(266)  
 <223> n = A,T,C or G

<400> 170  
 acctgtgggc tgggctgtta tgcctgtgcc ggctgctgaa agggagtcca gaggtggagc 60  
 tcaaggagct ctgcaggcat ttgccaanc ctctccanag canagggagc aacctacact 120  
 ccccgctaga aagacaccag attggagtcc tgggaggggg agttggggtg ggcatttgat 180  
 gtatacttgt cacctgaatg aangagccag agaggaanga gacgaanatg anattggcct 240  
 tcaaagctag gggctctggca ggtgga 266

<210> 171  
 <211> 1248  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1248)  
 <223> n = A,T,C or G

<400> 171  
 ggcagccaaa tcataaacgg cgaggactgc agcccgcact cgcagccctg gcaggcggca 60  
 ctgggtcatgg aaaacgaatt gttctgctcg ggcgctcctg tgcattccga gtgggtgctg 120  
 tcagccgcac actgtttcca gaagtgagtg cagagctcct acaccatcgg gctgggcctg 180  
 cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta 240  
 cggcaccacag agtacaacag acccttgctc gctaacgacc tcatgctcat caagttggac 300  
 gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgccctacc 360  
 gcggggaaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc 420  
 gtgctgcagt gcgtgaacgt gtcgggtggg tctgaggagg tctgcagtaa gctctatgac 480  
 ccgctgtacc accccagcat gttctgcgcc ggcgaggggc aagaccagaa ggactcctgc 540  
 aacgggtgact ctggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc 600  
 ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtc acaccaacct ctgcaaattc 660  
 actgagtggga tagagaaaac cgtccaggcc agttaactct ggggactggg aacctatgaa 720  
 attgaccccc aaatacatcc tgcggaagga attcaggaat atctgttccc agcccctcct 780  
 ccctcaggcc caggagtcca ggccccagc ccctcctccc tcaaaccaag ggtacagatc 840  
 ccagccccct cctccctcag acccaggagt ccagaccccc cagccccctc tccctcagac 900  
 ccaggagtcc agcccctcct ccctcagacc caggagtcca gacccccag cccctcctcc 960  
 ctgagacca ggggtccagg cccccaaccc ctccctccct agactcagag gtccaagccc 1020  
 ccaaccntc attccccaga cccagaggtc cagggtccag cccctcntcc ctgagacca 1080  
 gcggtccaat gccacctaga ctntccctgt acacagtgcc cccttggtgg acgttgacct 1140  
 aaccttacca gttggttttt catTTTTngt ccctttcccc tagatccaga aataaagttt 1200  
 aagagaagng caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1248

<210> 172  
 <211> 159  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> VARIANT  
 <222> (1)...(159)  
 <223> Xaa = Any Amino Acid

<400> 172  
 Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro  
 1 5 10 15

60

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Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
      20      25      30
Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
      35      40      45
Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
      50      55      60
Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
      65      70      75      80
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe
      85      90      95
Cys Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser
      100      105      110
Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe
      115      120      125
Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn
      130      135      140
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
      145      150      155

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<210> 173
<211> 1265
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(1265)
<223> n = A,T,C or G

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<400> 173
ggcagcccgcc actcgcagcc ctggcaggcg gcaactgggtca tggaaaacga attgtttctgc      60
tcgggcgctcc tgggtgcatcc gcagtgggtg ctgtcagccg cacactgttt ccagaactcc      120
tacaccatcg ggctgggacct gcacagtctt gagggcgacc aagagccagg gagccagatg      180
gtggagggccg gcctctccgt acggcaccca gagtacaaca gaccttgct cgctaacgac      240
ctcatgctca tcaagttgga cgaatccgtg tccgagtctg acaccatccg gagcatcagc      300
attgcttcgc agtgccctac cgcggggaac tcttgccctg tttctggctg ggggtctgctg      360
gcgaacgggtg agctcacggg tgtgtgtctg cctcttcaa ggaggtcctc tgcccagtcg      420
cgggggctga cccagagctc tgcgtcccag gcagaatgcc taccgtgctg cagtgcgtga      480
acgtgtcggg ggtgtctgag gaggtctgca gtaagctcta tgaccgctg taccaccca      540
gcatgtttctg cgccggcgga gggcaagacc agaaggactc ctgcaacggt gactctgggg      600
ggccctgat ctgcaacggg tacttgagg gccttgtgtc tttcggaaaa gcccctgtg      660
gccaaagtgg cgtgccagg gtctacacca acctctgcaa attcactgag tggatagaga      720
aaaccgtcca ggccagttaa ctctggggac tgggaaccca tgaaattgac ccccaaatac      780
atcctgogga aggaattcag gaatatctgt tcccagcccc tcctccctca ggcccaggag      840
tccaggcccc cagcccctcc tccctcaaac caagggtaca gatcccagc cctcctccc      900
tcagaaccag gagtccagac ccccagcccc ctctccctc agaccagga gtccagcccc      960
tcctcctca gaccaggag tccagacccc ccagcccctc ctccctcaga cccaggggtt      1020
gaggccccca acccctcctc ctccagagtc agagggtcaa gcccacaacc cctcgttccc      1080
cagacccaga ggttnnaggtc ccagcccctc ttccntcaga cccagnggtc caatgccacc      1140
tagattttcc ctgnacacag tgcccccttg tggngangttg acccaacctt accagttggg      1200
tttccatttt tngtcccttt cccctagatc cagaaataaa gtttaagaga nngncaaaaa      1260
aaaaa

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<210> 174
<211> 1459
<212> DNA
<213> Homo sapien

```

<220>  
 <221> misc\_feature  
 <222> (1)...(1459)  
 <223> n = A,T,C or G

<400> 174

ggtcagccgc	acactgtttc	cagaagtgag	tgcagagctc	ctacaccatc	gggctgggccc	60
tgcacagtct	tgaggccgac	caagagccag	ggagccagat	ggtaggaggcc	agcctctccg	120
tacggcacc	agagtacaac	agacccttgc	tcgctaacga	cctcatgctc	atcaagttgg	180
acgaatccgt	gtccgagtct	gacaccatcc	ggagcatcag	cattgcttcg	cagtgcctta	240
ccgcggggaa	ctcttgccctc	gtttctggct	ggggtctgct	ggcgaacggg	gagctcacgg	300
gtgtgtgtct	gccctcttca	aggaggtcct	ctgcccagtc	gcgggggctg	acccagagct	360
ctgcgtccca	ggcagaatgc	ctaccgtgct	gcagtgcgtg	aacgtgtcgg	tgggtgtctga	420
ngaggctctg	antaagctct	atgaccgcgt	gtaccacccc	ancatgttct	gcgccggcgg	480
agggcaagac	cagaaggact	cctgcaacgt	gagagagggg	aaaggggagg	gcaggcgact	540
cagggaaggg	tggagaaggg	ggagacagag	acacacaggg	ccgcatggcg	agatgcagag	600
atggagagac	acacagggag	acagtgacaa	ctagagagag	aaactgagag	aaacagagaa	660
ataaacacac	gaataaagag	aagcaaagga	agagagaaac	agaaacagac	atggggaggc	720
agaaacacac	acacatagaa	atgcagttga	ccttccaaca	gcatggggcc	tgaggggcgg	780
gacctccacc	caatagaaaa	tcctcttata	acttttgact	ccccaaaaac	ctgactagaa	840
atagcctact	gttgacgggg	agccttacca	ataacataaa	tagtcgattt	atgcatacgt	900
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gtctgtgaat	tttttttaaat	tgttgcaact	ctcctaaaaat	ttttctgatg	tgttttattga	1020
aaaaatocaa	gtataagtgg	acttgtgcat	tcaaaccagg	gttggtcaag	ggtcaactgt	1080
gtacccagag	ggaaacagtg	acacagattc	atagaggtga	aacacgaaga	gaaacaggaa	1140
aaatcaagac	tctacaaaga	ggctgggcag	ggtaggtcat	gcctgtaatc	ccagcacttt	1200
ggtaggcgag	gcaggcgagat	cacttgaggt	aaggagttca	agaccagcct	ggccaaaatg	1260
gtgaaatcct	gtctgtacta	aaaatacaaa	agtttagctg	atatggtggc	aggcgccctgt	1320
aatcccagct	acttgggagg	ctgaggcagg	agaattgctt	gaatatggga	ggcagagggtt	1380
gaagtgagtt	gagatcacac	cactatactc	cagctggggc	aacagagtaa	gactctgtct	1440
caaaaaaaaa	aaaaaaaaaa					1459

<210> 175  
 <211> 1167  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1167)  
 <223> n = A,T,C or G

<400> 175

gcgcagccct	ggcaggcggc	actggtcatg	gaaaacgaat	tgttctgctc	gggcgtcctg	60
gtgcatoocg	agtgggtgct	gtcagccgca	cactgtttcc	agaactccta	caccatcggg	120
ctgggcctgc	acagtcttga	ggccgaccaa	gagccaggga	gccagatggg	ggaggccagc	180
ctctccgtac	ggcaccacga	gtacaacaga	ctcttgctcg	ctaaccgacct	catgctcatc	240
aagttggacg	aatccgtgtc	cgagtctgac	accatccgga	gcatcagcat	tgcttgcgag	300
tgcctacccg	cggggaactc	ttgcctcgtn	tctggctggg	gtctgctggc	gaacggcgaga	360
atgcctacccg	tgctgcactg	cgtgaacgtg	tccgttggtg	ctgaggangt	ctgcagtaag	420
ctctatgacc	cgctgtacca	cccagcatg	ttctgcgccg	gcggagggca	agaccagaag	480
gactcctgca	acggtgactc	tggggggccc	ctgatctgca	acgggtactt	gcagggcctt	540
gtgtctttcg	gaaaagcccc	gtgtggccaa	cttggcgtgc	cagggtgtcta	caccaacctc	600
tgcaaattca	ctgagtggat	agagaaaacc	gtocagncca	gttaactctg	gggactggga	660
acccatgaaa	ttgacccccca	aatacatcct	gcggaangaa	ttcaggaata	tctgttccca	720
gcccctcctc	cctcaggccc	aggagtccag	gccccagcc	cctcctccct	caaaccaagg	780
gtacagatcc	ccagccctc	ctccctcaga	cccaggagtc	cagaccccc	agccccctnt	840
ccntcagacc	caggagtcca	gcccctcctc	cntcagacgc	aggagtccag	accccccagc	900

62

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ccntcntccg tcagacccag ggggtgcaggc ccccaacccc tcntccntca gagtcagagg      960
tccaagcccc caacccctcg ttccccagac ccagaggtnc aggtcccagc cctcctctcc      1020
tcagacccag cgggtccaatg ccacctagan tntccctgta cacagtgcc ccttggtggca      1080
ngttgaccca accttaccag ttggtttttc attttttgtc cctttccctt agatccagaa      1140
ataaagtnta agagaagcgc aaaaaaa                                1167

```

<210> 176  
 <211> 205  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> VARIANT  
 <222> (1)...(205)  
 <223> Xaa = Any Amino Acid

```

<400> 176
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1      5      10      15
Val Leu Ser Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
      20      25      30
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
      35      40      45
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu
      50      55      60
Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
      65      70      75      80
Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
      85      90      95
Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met
      100      105      110
Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val
      115      120      125
Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala
      130      135      140
Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly
      145      150      155      160
Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys
      165      170      175
Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys
      180      185      190
Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser
      195      200      205

```

<210> 177  
 <211> 1119  
 <212> DNA  
 <213> Homo sapien

```

<400> 177
gogcactcgc agccctggca ggcggcactg gtcattgaaa acgaattggt ctgctcgggc      60
gtcctggtgc atccgcagtg ggtgctgtca gccgcacact gtttccagaa ctctacacc      120
atcgggctgg gcctgcacag tcttgaggcc gaccaagagc cagggagcca gatgggtggag      180
gccagcctct ccgtacggca cccagagtac aacagaccct tgctcgctaa cgacctcatg      240
ctcatcaagt tggacgaatc cgtgtccgag tctgacacca tccggagcat cagcattgct      300
togcagtgcc ctaccgcggg gaactcttgc ctcgtttctg gctggggtct gctggcgaac      360
gatgctgtga ttgccatcca gtcccagact gtgggaggct gggagtgtga gaagctttcc      420
caaccctggc agggttgtac catttcggca acttccagtg caaggacgtc ctgctgcate      480

```



## 63

```

ctcactgggt gctcactact gctcactgca tcacccggaa cactgtgata aactagccag 540
caccatagtt ctccgaagtc agactatcat gattactgtg ttgactgtgc tgtctattgt 600
actaaccatg ccgatgttta ggtgaaatta gcgtcacttg gcctcaacca tcttggtatc 660
cagttatcct cactgaattg agatttctctg cttcagtgtc agccattccc acataatttc 720
tgacctacag aggtgagggg tcatatagct cttcaaggat gctggtactc cctccacaaa 780
ttcattttctc ctggtttagt gaaaggtgcg ccctctggag cctcccaggg tgggtgtgca 840
ggtcacaatg atgaatgtat gatcgtgttc ccattaccca aagcctttaa atccctcatg 900
ctcagtacac cagggcaggt ctagcatttc ttcatttagt gtatgctgtc cattcatgca 960
accacctcag gactcctgga ttctctgcct agttgagctc ctgcatgctg cctccttggg 1020
gaggtgaggg agagggccca tggttcaatg ggatctgtgc agttgtaaca cattaggtgc 1080
ttaataaaca gaagctgtga tgtaaaaaa aaaaaaaaa 1119

```

<210> 178  
 <211> 164  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> VARIANT  
 <222> (1)...(164)  
 <223> Xaa = Any Amino Acid

```

<400> 178
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
1      5      10      15
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
20     25     30
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
35     40     45
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu
50     55     60
Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
65     70     75     80
Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
85     90     95
Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Asp Ala Val
100    105    110
Ile Ala Ile Gln Ser Xaa Thr Val Gly Gly Trp Glu Cys Glu Lys Leu
115    120    125
Ser Gln Pro Trp Gln Gly Cys Thr Ile Ser Ala Thr Ser Ser Ala Arg
130    135    140
Thr Ser Cys Cys Ile Leu Thr Gly Cys Ser Leu Leu Leu Thr Ala Ser
145    150    155    160
Pro Gly Thr Leu

```

<210> 179  
 <211> 250  
 <212> DNA  
 <213> Homo sapien

```

<400> 179
ctggagtgcc ttggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcacct 60
ccagctgccc ccggccgggg gatgcgaggc tcggagcacc cttgcccggc tgtgattgct 120
gccaggcact gttcatctca gcttttctgt ccctttgctc ccggcaagcg cttctgctga 180
aagttcatat ctggagcctg atgtottaac gaataaaggt cccatgctcc acccgaaaaa 240
aaaaaaaaa 250

```

64

<210> 180  
 <211> 202  
 <212> DNA  
 <213> Homo sapien

<400> 180  
 actagtccag tgtggtggaa ttccattgtg ttggggcccaa cacaatggct acctttaaca 60  
 tcaaccagac cccgcccctg cccgtgcccc acgctgctgc taacgacagt atgatgctta 120  
 ctctgctact cggaactat ttttatgtaa ttaatgtatg ctttcttggt tataaatgcc 180  
 tgattttaaaa aaaaaaaaaa aa 202

<210> 181  
 <211> 558  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(558)  
 <223> n = A,T,C or G

<400> 181  
 tccytthtkt naggtthtkk agacamccck agacctwaan ctgtgtcaca gacttcyngg 60  
 aatgtthtagg cagtgtctagt aatttcytcg taatgattct gttattactt tcctnattct 120  
 ttattctctt ttcttctgaa gattaatgaa gttgaaaatt gaggtggata aatacaaaaa 180  
 ggtagtgtga tagtataagt atctaagtgc agatgaaagt gtgttatata tatccattca 240  
 aaattatgca agttagtaat tactcagggt taactaaatt actttaatat gctgttgaac 300  
 ctactctgtt ccttggctag aaaaaattat aaacaggact ttgttagttt gggaagccaa 360  
 attgataata ttctatgttc taaaagttgg gctatacata aattattaag aaatatggaw 420  
 ttttattccc aggaatatgg kgttcatttt atgaatatta cscrggatag awgtwtgagt 480  
 aaaaycagtt ttggtwaata ygtwaatatg tcmtaataaa acaakgcttt gacttatttc 540  
 caaaaaaaaa aaaaaaaaaa 558

<210> 182  
 <211> 479  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(479)  
 <223> n = A,T,C or G

<400> 182  
 acagggwttk grggatgcta agsccccrga rwtggtttga tccaaccctg gcttwttttc 60  
 agaggggaaa atggggccta gaagttacag mscatytagy tgggtgcmtg gcacccctgg 120  
 cstcacacag astcccagat agctgggact acaggcacac agtcaactgaa gcaggccctg 180  
 ttwgcaattc acgttgccac ctccaaactta aacattcttc atatgtgatg tccttagtca 240  
 ctaagggttaa actttccac ccagaaaagg caacttagat aaaatcttag agtactttca 300  
 tactmttcta agtcctcttc cagcctcact kkgagtcctm cytgggggtt gataggaant 360  
 ntctcttggc tttctcaata aartctctat ycatctcatg ttttaatttg tacgcataara 420  
 awtgstgara aaattaaaat gttctggtty macttttaaaa aaaaaaaaaa aaaaaaaaaa 479

<210> 183  
 <211> 384  
 <212> DNA  
 <213> Homo sapien

65

```

<400> 183
aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactgggtgcc      60
agtaccagta ccaataacag tgccagtgcc agtgccagca ccagtggtgg cttcagtgct      120
ggtgccagcc tgaccgccac tctcacatct gggctcttcg ctggccttgg tggagctggg      180
gccagcacca gtggcagctc tgggtgcctgt ggtttctcct acaagtgaga ttttagatat      240
tgттаатсст gccagtcctt ctcttcaagc caggggtgcat cctcagaaac ctactcaaca      300
cagcactcta ggcagccact atcaatcaat tgaagttgac actctgcatt aratctatct      360
gccatttcaa aaaaaaaaaa aaaa                                     384

```

```

<210> 184
<211> 496
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(496)
<223> n = A,T,C or G

```

```

<400> 184
accgaattgg gaccgctggc ttataagcga tcatgttynt ccrgtatkcac ctcaacgagc      60
agggagatcg agtctatacg ctgaagaaat ttgaccgat gggacaacag acctgctcag      120
cccacctcgc tgggttctcc ccagatgaca aatactctsg acaccgaatc accatcaaga      180
aacgcttcaa ggtgctcatg acccagcaac ogcgccctgt cctctgaggg tcccttaaac      240
tgatgtcttt tctgccacct gttacccttc ggagactccg taaccaaact cttcggactg      300
tgagccctga tgcctttttt ccagccatac tctttggcat ccagtctctc gtggcgattg      360
attatgcttg tgtgaggcaa tcatggtggc atcacccata aagggaacac atttgacttt      420
tttttctcat attttaaatt actacmagaw tattwmagaw waaatgawtt gaaaaactst      480
taaaaaaaaa aaaaaa                                           496

```

```

<210> 185
<211> 384
<212> DNA
<213> Homo sapien

```

```

<400> 185
gctggtagcc tatggcgkgg cccacggagg ggctcctgag gccacggrac agtgacttcc      60
caagtatcyt ggcsgcgcgc ttctaccgtc cctacctgca gatcttcggg cagattcccc      120
aggaggacat ggacgtggcc ctcatggagc acagcaactg ytcgtcggag cccggcttct      180
gggcacaccc tcctggggcc caggcgggca cctgcgtctc ccagtatgcc aactggctgg      240
tggtgctgct cctcgtcatc ttctgctcgt tggccaacat cctgctggtc aacttgctca      300
ttgccatggt cagttacaca ttcggaagag tacagggcaa cagcgatctc tactgggaag      360
gcgcagcggt accgcctcat ccgg                                     384

```

```

<210> 186
<211> 577
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(577)
<223> n = A,T,C or G

```

```

<400> 186
gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggcctctcgc ttcataccgc      60
tncatcgctc atactgtagg ttggccacca cytcctggca tcttggggcg gcntaatatt      120
ccaggaaact ctcaatcaag tcaccgtoga tgaaacctgt gggctggttc tgtcttcgcg      180

```

tcggtgtgaa	aggatctccc	agaaggagtg	ctcgatcttc	cccacacttt	tgatgacttt	240
attgagtcga	ttctgcatgt	ccagcaggag	gttgtaccag	ctctctgaca	gtgaggtcac	300
cagccctatc	atgccgttga	mcgtgccgaa	garcaccgag	ccttgtgtgg	gggkkaagt	360
ctcaccacaga	ttctgcatta	ccagagagcc	gtggcaaaag	acattgacaa	actcgcccag	420
gtggaaaaag	amcamctcct	ggargtgctn	gccgctcctc	gtcmgttggt	ggcagcgctw	480
tccttttgac	acacaaacaa	gttaaaggca	ttttcagccc	ccagaaantt	gtcatcatcc	540
aagatntcgc	acagcactna	tccagttggg	attaaat			577

<210> 187  
 <211> 534  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(534)  
 <223> n = A,T,C or G

<400> 187						
aacatcttcc	tgtataatgc	tgtgtaatat	cgatccgatn	ttgtctgstg	agaatycatw	60
actkggaaaa	gmaacattaa	agcctggaca	ctggatttaa	aattcacaat	atgcaacact	120
ttaaacagtg	tgtcaatctg	ctcccyynac	tttgtcatca	ccagtctggg	aakaagggta	180
tgccctattc	acacctgtta	aaagggcgct	aagcattttt	gattcaacat	cttttttttt	240
gacacaagtc	cgaaaaaagc	aaaagtaaac	agttatyaat	ttgttagcca	attcactttc	300
ttcatgggac	agagccatyt	gatttaaaaa	gcaaattgca	taatattgag	cttygggagc	360
tgatatttga	gcggaagagt	agcctttcta	cttcaccaga	cacaactccc	tttcatattg	420
ggatgttnac	naaagtwatg	tctctwacag	atgggatgct	tttgtggcaa	ttctgttctg	480
aggatctccc	agtttatatta	ccacttgcac	aagaaggcgt	tttcttcctc	aggc	534

<210> 188  
 <211> 761  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(761)  
 <223> n = A,T,C or G

<400> 188						
agaaaccagt	atctctnaaa	acaacctctc	ataccttgtg	gacctaat	ttgtgtgcgtg	60
tgtgtgtgcg	cgcataattat	atagacaggc	acatcttttt	tactttttgta	aaagcttatg	120
cctcttttgg	atctatatct	gtgaaagttt	taatgatctg	ccataatgtc	ttggggacct	180
ttgtcttctg	tgtaaaatgg	actagagaaa	acacctatnt	tatgagtcaa	tctagttngt	240
tttattcgac	atgaaggaaa	tttccagatn	acaacactna	caaactctcc	ctkgackarg	300
ggggacaaag	aaaagcaaaa	ctgamcataa	raaacaatwa	cctgggtgaga	arttgcataa	360
acagaaatwr	ggtagtatat	tgaarnacag	catcattaaa	rmgttwtktt	wttctccctt	420
gcaaaaaaca	tgtacngact	tcccgttgag	taatgccaa	ttgttttttt	tatnataaaa	480
cttgcccttc	attacatggt	tnaaagtgg	gtgggtggcc	aaaatattga	aatgatggaa	540
ctgactgata	aagctgtaca	aataagcagt	gtgcctaaca	agcaacacag	taatgttgac	600
atgcttaatt	cacaaaatg	aatttcatta	taaatgtttg	ctaaaataca	ctttgaacta	660
tttttctgtn	ttcccagagc	tgagatntta	gattttatgt	agtatnaagt	gaaaaantac	720
gaaaataata	acattgaaga	aaaananaaa	aaanaaaaaa	a		761

<210> 189  
 <211> 482  
 <212> DNA  
 <213> Homo sapien

67

<220>  
 <221> misc\_feature  
 <222> (1)...(482)  
 <223> n = A,T,C or G

<400> 189  
 tttttttttt tttgccgatn ctactatttt attgcaggan gtgggggtgt atgcaccgca 60  
 caccggggct atnagaagca agaaggaagg agggagggca cagccccttg ctgagcaaca 120  
 aagccgcctg ctgccttctc tgtctgtctc ctggtgcagg cacatgggga gaccttcccc 180  
 aaggcagggg ccaccagtcc aggggtggga atacaggggg tgggangtgt gcataagaag 240  
 tgataggcac aggccacccg gtacagaccc ctcggtcctt gacaggtnga tttcgaccag 300  
 gtcattgtgc cctgcccagg cacagcgtan atctggaaaa gacagaatgc tttccttttc 360  
 aaatttggct ngtcatngaa ngggcanttt tccaanttng gctnngtctt ggtacncttg 420  
 gttcggccca gctcncgtc caaaaaantat tcaccnctt cnaattgct tgcnggnccc 480  
 cc 482

<210> 190  
 <211> 471  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(471)  
 <223> n = A,T,C or G

<400> 190  
 tttttttttt tttfaaaaca gtttttcaca acaaaattta ttagaagaat agtggttttg 60  
 aaaactctcg catccagtga gaactaccat acaccacatt acagctngga atgtinctca 120  
 aatgtctggt caaatgatac aatggaacca ttcaatctta cacatgcacg aaagaacaag 180  
 cgcttttgac atacaatgca caaaaaaaaa aggggggggg gaccacatgg attaaaaatt 240  
 taagtactca tcacatacat taagacacag ttctagtcca gtcnaaaatc agaactgcnt 300  
 tgaaaaattt catgtatgca atccaaccaa agaacttnat tggatgatcat gantnctcta 360  
 ctacatcnac cttgatcatt gccaggaacn aaaagttnaa ancacncngt acaaaaaanaa 420  
 tctgtaattn anttcaacct ccgtacongaa aaatnttntt tatacactcc c 471

<210> 191  
 <211> 402  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(402)  
 <223> n = A,T,C or G

<400> 191  
 gagggattga aggtctgttc tastgtoggm ctgttcagcc accaactcta acaagttgct 60  
 gtcttccact cactgtctgt aagcttttta acccagacwg tatcttcata aatagaacaa 120  
 attcttcacc agtcacatct tctaggacct ttttggattc agttagtata agctcttcca 180  
 ctctctttgt taagacttca tctggtaaag tcttaagttt tgtagaaaagg aattyaattg 240  
 ctcgttctct aacaatgtcc tctccttgaa gtatttggct gaacaaccca cctaaagtcc 300  
 ctttgtgcat ccattttaaa tatacttaat agggcattgk tncactaggt taaattctgc 360  
 aagagtcac tgtctgcaaa agttgogtta gtatatctgc ca 402

<210> 192  
 <211> 601

68

<212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(601)  
 <223> n = A,T,C or G

<400> 192  
 gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact 60  
 ggtctacccc acatgggagc agcatgccgt agntatataa ggtcattccc tgagtcagac 120  
 atgcytyttt gaytaccgtg tgccaagtgc tgggtgattct yaacacacyt ccatccogyt 180  
 cttttgtgga aaaactggca cttktctgga actagcarga catcacttac aaattcaccc 240  
 acgagacact tgaaaggtgt aacaaagcga ytcttgcatt gctttttgtc cctccggcac 300  
 cagttgtcaa tactaaccgc ctggtttgcc tccatcacat ttgtgatctg tagctctgga 360  
 tacatctcct gacagtactg aagaacttct tcttttgttt caaaagcarc tcttgggtgcc 420  
 tggtggatca ggttcccat tcccagtcyg aatgttcaca tggcatattt wacttcccac 480  
 aaaacattgc gatttgaggc tcagcaacag caaatcctgt tccggcattg gctgcaagag 540  
 cctcgatgta gccggccagc gccaaaggcag gcgcctgtgag cccaccagc agcagaagca 600  
 g 601

<210> 193  
 <211> 608  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(608)  
 <223> n = A,T,C or G

<400> 193  
 atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtcact 60  
 ggtcccgtg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcytt 120  
 cccaacgcag gcagmagcgg gscgggtcaa tgaactccay tcgtggcttg gggtkgacgg 180  
 tkaagtgcag gaagaggctg accacctgcg ggtccaccag gatgcccagc tgtgcgggac 240  
 ctgcagcgaa actcctcgat ggtcatgagc gggaagcgaa tgaggcccag ggccttgccc 300  
 agaaccttcc gcctgttctc tggcgtcacc tgcagctgct gccgctgaca ctgggcctcg 360  
 gaccagcgga caaacggcrt tgaacagccg cacctcacgg atgccagtg tgtcgcgctc 420  
 caggammgsc accagcgtgt ccagggtcaat gtccgtgaag ccctccgcgg gtrattggcgt 480  
 ctgcagtgtt tttgtcgatg ttctccaggc acaggctggc cagctgcggt tcatcgaaga 540  
 gtcgcgcctg cgtgagcagc atgaaggcgt tgtcggctcg cagttcttct tcaggaactc 600  
 cagcaat 608

<210> 194  
 <211> 392  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(392)  
 <223> n = A,T,C or G

<400> 194  
 gaacggctgg accttgccct gcattgtgct tgctggcagg gaataccttg gcaagcagyt 60  
 ccagtcogag cagccccaga ccgctgccgc ccgaagctaa gcctgcctct ggccttcccc 120  
 tccgcctcaa tgcagaacca gtagtgggag cactgtgttt agagttaaga gtgaacactg 180

## 69

tttgattttta	cttggaatt	tcctctgtta	tatagctttt	cccaatgcta	atttccaaac	240
aacaacaaca	aaataacatg	tttgccctgtt	aagttgtata	aaagtaggtg	attctgtatt	300
taaagaaaat	attactgtta	catatactgc	ttgcaatttc	tgtattttatt	gktnctstgg	360
aaataaatat	agttattaaa	ggttgtcant	cc			392

<210> 195  
 <211> 502  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(502)  
 <223> n = A,T,C or G

<400> 195						
ccsttkgagg	ggtkaggkyc	cagttycoga	gtggaagaaa	caggccagga	gaagtgcgtg	60
ccgagctgag	gcagatgttc	ccacagtgc	ccccagagcc	stgggstata	gtytctgacc	120
cctcncaagg	aaagaccacs	ttctggggac	atgggctgga	gggcaggacc	tagaggcacc	180
aagggaaagg	cccattccgg	ggstgttccc	cgaggaggaa	gggaaggggc	tctgtgtgcc	240
ccccasgagg	aagaggccct	gagtcctggg	atcagacacc	ccttcacgtg	tatccccaca	300
caaatgcaag	ctcaccaagg	tcccctctca	gtccccttcc	stacaccctg	amcggccact	360
gscscacacc	caccagagc	acgccaccog	ccatggggar	tgtgctcaag	gartcgcnng	420
gcarcgtgga	catctngtcc	cagaaggggg	cagaatctcc	aatagangga	ctgarcmstt	480
gctnanaaaa	aaaaanaaaa	aa				502

<210> 196  
 <211> 665  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(665)  
 <223> n = A,T,C or G

<400> 196						
ggttacttgg	tttctattgcc	accacttagt	ggatgtcatt	tagaaccatt	ttgtctgctc	60
cctctggaag	ccttgccgag	agcggacttt	gtaattgttg	gagaataact	gctgaatttt	120
wagctgtttk	gagttgatts	gcaccaactgc	accacaaact	tcaatatgaa	aacyawttga	180
actwatattat	tatcttgtga	aaagtataac	aatgaaaatt	ttgttcatac	tgtattkcatc	240
aagtatgatg	aaaagcaawa	gatatatatt	cttttattat	gttaaattat	gattgccatt	300
attaatcggc	aaaatgtgga	gtgtatgttc	ttttcacagt	aatatatgcc	ttttgtaact	360
tcacttggtt	attttattgt	aaatgartta	caaaattctt	aatttaagar	aatggatgt	420
watattttatt	tcattaattt	ctttcctkgt	ttacgtwaat	tttgaaaaga	wtgcatgatt	480
tcttgacaga	aatcgatctt	gatgctgtgg	aagtagtttg	accacacatcc	ctatgagttt	540
ttcttagaat	gtataaagg	tgtagcccat	cnaacttcaa	agaaaaaat	gaccacatac	600
tttgcaatca	ggctgaaatg	tggcatgctn	ttctaattcc	aactttataa	actagcaaan	660
aagtg						665

<210> 197  
 <211> 492  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(492)

70

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 197

tttntttttt	ttttttttgc	aggaaggatt	ccattttattg	tggatgcatt	ttcacaatat	60
atgtttattg	gagcgatcca	ttatcagtga	aaagtatcaa	gtgtttataa	natttttagg	120
aaggcagatt	cacagaacat	gctngtcngc	ttgcagtttt	acctcgtana	gatnacagag	180
aattatagtc	naaccagtaa	acnaggaatt	tactttttcaa	aagattaaat	ccaaactgaa	240
caaaattcta	ccctgaaact	tactccatcc	aaatattgga	ataanagtca	gcagtgatac	300
attctcttct	gaacttttaga	ttttctagaa	aaatatgtaa	tagtgatcag	gaagagctct	360
tgttcaaaag	tacaacnaag	caatgttccc	ttaccatagg	ccttaattca	aactttgatc	420
catttcactc	ccatcacggg	agtcaatgct	acctgggaca	cttgatattt	gttcatnctg	480
ancntggctt	aa					492

&lt;210&gt; 198

&lt;211&gt; 478

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(478)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 198

tttnttttgn	atttcantct	gtannaanta	ttttcattat	gtttattana	aaaatatnaa	60
tgtntccacn	acaaatcatn	ttacntnagt	aagaggccan	ctacattgta	caacatacac	120
tgagtatat	ttgaaaagga	caagttttaa	gtanacncat	attgccganc	atanacatt	180
tatacatggc	ttgattgata	tttagcacag	canaaatcga	gtgagttacc	agaaanaaat	240
natatatgtc	aatcngattt	aagatacaaa	acagatccta	tggtacatan	catcntgtag	300
gagttgtggc	tttatgttta	ctgaaagtca	atgcagttcc	tgtacaaaga	gatggccgta	360
agcattctag	tacctctact	ccatgggttaa	gaatcgtaca	cttatgttta	catatgtinca	420
gggtaagaat	tgtgttaagt	naanttatgg	agaggtccan	gagaaaaatt	tgatncaa	478

&lt;210&gt; 199

&lt;211&gt; 482

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(482)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 199

agtgaacttg	cctccaacaa	aacccttga	tcaagtttgt	ggcactgaca	atcagaccta	60
tgctagtccc	tgtcatctat	tcgctactaa	atgcagactg	gaggggacca	aaaaggggca	120
tcaactccag	ctggattatt	ttggagcctg	caaactctatt	cctacttgta	cggactttga	180
agtgaattcag	tttcctctac	ggatgagaga	ctggctcaag	aatatcctca	tgcagcttta	240
tgaagccnac	tctgaacacg	ctggttatct	nagatgagaa	ncagagaaat	aaagtcnaga	300
aaatttacct	ggangaaaag	aggctttngg	ctggggacca	tcccattgaa	ccttctctta	360
anggacttta	agaanaaaact	accacatgtn	tgtngtatcc	tggtgccnng	cogtttantg	420
aacntngacn	ncacccttnt	ggaatanant	cttgacngcn	tcctgaactt	gctoctctgc	480
ga						482

&lt;210&gt; 200

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapien



```
<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G
```

<400> 200						
cggcgcgaag	tgcaactcca	gctggggcgcg	tgcggacgaa	gattctgccca	gcagttggtc	60
cgactgcgac	gacggcggcg	gcgacagtcg	caggtgcagc	gcggggcgct	gggtcttgc	120
aaggtctgagc	tgacgcgcga	gaggtcgtgt	cacgtccac	gaccttgacg	ccgtcgggga	180
cagcgggaac	agagcccggt	gaangcggga	ggcctcgggg	agccctcgg	gaaggcggc	240
ccgagagata	cgcaggtgca	ggtggccgc				270

```
<210> 201
<211> 419
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(419)  
<223> n = A,T,C or G
```

<400>	201						
tttttttttt	ttttggaatc	tactgcgagc	acagcagggtc	agcaacaagt	ttatttttgca		60
gctagcaagg	taacagggtta	gggcatgggt	acatgttcag	gtcaacttcc	tttgtcgtgg		120
ttgattgggt	tgtctttatg	ggggcgggggt	ggggtagggg	aaancgaagc	anaantaaca		180
tggagtgggt	gcaccctccc	tgtagaacct	ggttacnaaa	gcttggggga	gttcacctgg		240
tctgtgacgc	tcattttctt	gacatcaatg	ttattagaag	tcaggatata	tttagagag		300
tcactgtnt	ctggagggtt	attagggttt	cttgccaana	tccaancaa	atccacntga		360
aaaagtggga	tgatncangt	acngaatacc	ganggcatan	ttctcatant	cgggtggcca		419

```
<210> 202
<211> 509
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> {1}...{509}  
<223> n = A,T,C or G
```

<400> 202						
tttntttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tggcacttaa	tccattttta	tttcaaaatg	tctacaaant	ttnaatncnc	cattatacng	120
gtnattttnc	aaaatctaaa	nnttattcaa	atntnagcca	aantccttac	ncaaattnaa	180
tacnncaaaa	aatcaaaaat	atacntntct	ttcagcaaac	ttngttacat	aaattaaana	240
aataataacg	gctgggtgtt	tcaaagtaca	attatcttaa	cactgcaaac	atnttttnaa	300
ggaactaaaa	taaaaaaaaa	cactnccgca	aagggttaaag	ggaacaacaa	attcntttta	360
caacancnnc	nattataaaa	atcatatctc	aaatcttagg	ggaatatata	cttcacacng	420
ggatcttaac	ttttactnca	ctttgtttat	ttttttanaa	ccattgtntt	gggcccaaca	480
caatggnaat	nccnccnnc	tggaactagt				509

```
<210> 203
<211> 583
<212> DNA
<213> Homo sapien
```

<220>  
 <221> misc\_feature  
 <222> (1)...(583)  
 <223> n = A,T,C or G

<400> 203  
 tttttttttt ttttttttga cccccctott ataaaaaaca agttaccatt ttattttact 60  
 tacacatatt ttttttataa ttggtattag atattcaaaa ggcagctttt aaaatcaaac 120  
 taaatggaaa ctgccttaga tacataattc ttaggaatta gcttaaaatc tgccataaagt 180  
 gaaaatcttc tctagctctt ttgactgtaa atttttgact cttgtaaaac atccaaattc 240  
 atttttcttg tcttttaaaat tatctaattc ttccattttt tccctattcc aagtcaattt 300  
 gcttctctag cctcatttcc tagctcttat ctactattag taagtggctt ttttcctaaa 360  
 agggaanaa ggaagagana atggcacaca aaacaaacat tttatattca tttttctacc 420  
 tacgttaata aaatagcatt ttgtgaagcc agctcaaaag aaggcttaga tccttttatg 480  
 tccatttttag tcactaaacg atatcnaaag tgccagaatg caaaagggtt gtgaacattt 540  
 attcaaaagc taatataaga tatttcacat actcatcttt ctg 583

<210> 204  
 <211> 589  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(589)  
 <223> n = A,T,C or G

<400> 204  
 ttttttttnt tttttttttt ttttttntct ttcttttttt ttganaatga ggatcgagtt 60  
 ttctactctc tagatagggc atgaagaaaa ctcatctttc cagctttaaa ataacaatca 120  
 aatctcttat gctatatcat attttaagtt aaactaatga gtcactggct tatcttctcc 180  
 tgaaggaaat ctgttcattc ttctcattca tatagttata tcaagtacta ccttgcata 240  
 tgagagggtt ttcttctcta ttacacata tttttccatg tgaatttgta tcaaaccctt 300  
 attttcatgc aaactagaaa ataattgntt cttttgcata agagaagaga acaatatnag 360  
 cattacaaaa ctgctcaa atgtttgttaa gnttatccat tataattagt tnggcaggag 420  
 ctaatacaaa tcacatttac ngacnagcaa taataaaact gaagtaccag ttaaataatcc 480  
 aaaataatta aaggaacatt ttttagcctgg gtataattag ctaattcact ttacaagcat 540  
 ttattnagaa tgaattcaca tgttattatt cnttagccca acacaatgg 589

<210> 205  
 <211> 545  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(545)  
 <223> n = A,T,C or G

<400> 205  
 tttttntttt ttttttcagt aataatcaga acaatattta tttttatatt taaaattcat 60  
 agaaaagtgc cttacattta ataaaagttt gtttctcaaa gtgatcagag gaattagata 120  
 tngtcttgaa caccaatatt aatttgagga aaatacacca aaatacatta agtaaattat 180  
 ttaagatcat agagcttgta agtgaaaaga taaaatttga cctcagaaac tctgagcatt 240  
 aaaaatccac tattagcaaa taaattacta tggacttctt gctttaattt tgtgatgaat 300  
 atgggggtgc actggtaaac caacacattc tgaaggatac attacttagt gatagattct 360  
 tatgtacttt gctanatnac gtggatatga gttgacaagt ttctctttct tcaatctttt 420  
 aaggggcnag ngaaatgagg aagaaaagaa aaggattacg catactgttc tttctatngg 480

aaggattaga tatgtttcct ttgccaatat taaaaaata ataatgttta ctactagtga 540  
aacc 545

<210> 206  
<211> 487  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(487)  
<223> n = A,T,C or G

<400> 206  
tttttttttt ttttttagtc aagtttctna tttttattat aattaaagtc ttgggtcattt 60  
catttattag ctctgcaact tacatattta aattaaagaa acgttnttag acaactgtna 120  
caatttataa atgtaagggt ccattattga gtanatatat tcctccaaga gtggatgtgt 180  
cccttctccc accaactaat gaancagcaa cattagttta attttattag tagatnatac 240  
actgctgcaa acgctaattc tcttctccat ccccatgtng atattgtgta tatgtgtgag 300  
ttggttagaa tgcatacanca atctnacaat caacagcaag atgaagctag gcntgggctt 360  
tcggtgaaaa tagactgtgt ctgtctgaat caaatgatct gacctatcct cgggtggcaag 420  
aactcttcga accgcttcct caaaggcngc tgccacattt gtggcntctn ttgcaactgt 480  
ttcaaaa 487

<210> 207  
<211> 332  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(332)  
<223> n = A,T,C or G

<400> 207  
tgaattggct aaaagactgc atttttanaa ctagcaactc ttatttcttt cctttaaaaa 60  
tacatagcat taaatcccaa atcctattta aagacctgac agcttgagaa ggctcactact 120  
gcatttatag gaccttctgg tggttctgct gttacntttg aantctgaca atccttgana 180  
atcctttgcat gcagaggagg taaaagggtat tggattttca cagaggaana acacagcgca 240  
gaaatgaagg ggccaggctt actgagcttg tccactggag ggctcatggg tgggacatgg 300  
aaaagaaggc agcctaggcc ctggggagcc ca 332

<210> 208  
<211> 524  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(524)  
<223> n = A,T,C or G

<400> 208  
agggcggtgt gcgaggggcg ttactgtttt gtctcagtaa caataaatac aaaaagactg 60  
gttgtgttcc ggcccatcc aaccacgaag ttgatttctc ttgtgtgcag agtgactgat 120  
tttaaaggac atggagcttg tcacaatgtc acaatgtcac agtgtgaagg gcacactcac 180  
tccgcgtga ttcacattta gcaaccaaca atagctcatg agtccatact tgtaataact 240  
tttggcagaa tacttnttga aacttgaga tgataactaa gatccaagat atttccaaa 300

gtaaatagaa	gtgggtcata	atattaatta	cctgttcaca	tcagcttcca	tttacaagtc	360
atgagccag	acactgacat	caaactaagc	ccacttagac	tcctcaccac	cagtctgtcc	420
tgatcatcaga	caggaggctg	tcaccttgac	caaatttctca	ccagtcaatc	atctatccaa	480
aaaccattac	ctgatccact	tccggtaatg	caccaccttg	gtga		524

<210> 209  
 <211> 159  
 <212> DNA  
 <213> Homo sapien

<400> 209						
gggtgaggaa	atccagagtt	gccatggaga	aaattccagt	gtcagcattc	ttgtctccttg	60
tggccctctc	ctacactctg	gccagagata	ccacagtcaa	acctggagcc	aaaaaggaca	120
caaaggactc	tcgacccaaa	ctgccccaga	cctcttcca			159

<210> 210  
 <211> 256  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(256)  
 <223> n = A,T,C or G

<400> 210						
actccctggc	agacaaaggc	agaggagaga	gctctgttag	ttctgtgttg	ttgaactgcc	60
actgaatttc	tttccacttg	gactattaca	tgccanttga	gggactaatg	gaaaaacgta	120
tggggagatt	ttanccaatt	tangtntgta	aatggggaga	ctggggcagg	cgggagagat	180
ttgcagggtg	naaatgggan	ggctggtttg	ttanatgaac	agggacatag	gaggtaggca	240
ccaggatgct	aatca					256

<210> 211  
 <211> 264  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(264)  
 <223> n = A,T,C or G

<400> 211						
acattgtttt	tttgagataa	agcattgaga	gagctctcct	taacgtgaca	caatggaagg	60
actggaacac	ataccacacat	ctttgttctg	agggataatt	ttctgataaa	gtcttgctgt	120
atattcaagc	acatatgtta	tatattatc	agttccatgt	ttatagccta	gttaaggaga	180
ggggagatac	attcngaaag	aggactgaaa	gaaatactca	agtnggaaaa	cagaaaaaga	240
aaaaaaggag	caaatgagaa	gcct				264

<210> 212  
 <211> 328  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(328)  
 <223> n = A,T,C or G

```

<400> 212
accacaaaat ccaatgctga atatttggt tcattattcc canattcttt gattgtcaaa      60
ggattttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag      120
gtttatatat gcagcaacaa tattcaagcg cgacaacagg ttattgaaact tgcccgccag      180
ttnaattttca ttcccattga cttgggatcc ttatcatcag ccagagagat tgaaaattta      240
cccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag cttggccaca      300
tttttttttc ctttattcct ttgtcaga                                     328

```

```

<210> 213
<211> 250
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 213
acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt      60
taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct      120
cattatgcca aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt      180
ttcaatatatt gcatgaacct gctgataanc catgttaana aacaaatatt tctctnacct      240
tctcatcggg                                     250

```

```

<210> 214
<211> 444
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(444)
<223> n = A,T,C or G

```

```

<400> 214
acccagaatc caatgctgaa tatttggtctt cattattccc agattctttg attgtcaaag      60
gattttaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg      120
tttatatatg cagcaacaat attcaagcgc gacaacagggt tattgaaactt gcccgccagt      180
tgaattttcat tcccattgac ttgggatcct tatcatcagc canagagatt gaaaattttac      240
ccctacgact ctttactctc tggagagggc cagtgggtgt agctataagc ttggccacat      300
tttttttttc tttattcctt tgtcagagat gcgattcatc catatgctan aaaccaacag      360
agtgactttt acaaaaattcc tataganatt gtgaataaaa ccttacctat agttgccatt      420
actttgctct ccctaataata cctc                                     444

```

```

<210> 215
<211> 366
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(366)
<223> n = A,T,C or G

```

```

<400> 215
acttatgagc agagcgacat atccaagtgt anactgaata aaactgaatt ctctccagtt      60

```

```

taaagcattg ctcactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
cattatgcca aagganatat acatttcaat tctocaaact tcttcctcat tccaagagtt 180
ttcaatatatt gcatgaacct gctgataagc catgttgaga aacaaatata tctctgacct 240
tctcatoggt aagcagaggc tgtaggcaac atggaccata gcgaanaaaa aacttagtaa 300
tccaagctgt tttctacact gtaaccagggt ttccaaccaa ggtggaaatc tcctatactt 360
ggtgcc

```

```

<210> 216
<211> 260
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

```

```

<400> 216
ctgtataaac agaactccac tgcangaggg agggccgggc caggagaatc tccgcttgct 60
caagacaggg gcctaaggag ggtctccaca ctgctnntaa gggctnttnc atttttttat 120
taataaaaag tnnaaaaggc ctcttctcaa cttttttccc ttnggctgga aaatttaaaa 180
atcaaaaatt tcctnaagtt ntcaagctat catatatact ntatcctgaa aaagcaacat 240
aattcttctt tccctccttt
260

```

```

<210> 217
<211> 262
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

```

```

<400> 217
acctacgtgg gtaagtttan aaatgttata atttcaggaa naggaacgca tataattgta 60
tcttgcttat aattttctat ttttaataagg aaatagcaaa ttgggggtggg gggaatgtag 120
ggcattctac agtttgagca aaatgcaatt aaatgtggaa ggacagcact gaaaaatttt 180
atgaataatc tgtatgatta tatgtctcta gagtagattt ataattagcc acttacccta 240
atataccttca tgcttgtaaa gt
262

```

```

<210> 218
<211> 205
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(205)
<223> n = A,T,C or G

```

```

<400> 218
accaaggtgg tgcattaccg gaantggatc aangacacca tcgtggccaa cccctgagca 60
cccctatcaa ctcccctttg tagtaaactt ggaaccttgg aaatgaccag gccaaagactc 120
aggcctcccc agttctactg acctttgtcc ttangtntna ngtccagggt tgctaggaaa 180
anaaatcagc agacacaggt gtaaa
205

```

```

<210> 219

```

77

<211> 114  
 <212> DNA  
 <213> Homo sapien

<400> 219  
 tactgttttg tctcagtaac aataaatata aaaagactgg ttgtgttccg gccccatcca 60  
 accacgaagt tgattttctct tgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220  
 <211> 93  
 <212> DNA  
 <213> Homo sapien

<400> 220  
 actagccagc acaaaaaggca gggtagcctg aattgctttc tgctctttac atttctttta 60  
 aaataagcat ttagtgctca gtccctactg agt 93

<210> 221  
 <211> 167  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(167)  
 <223> n = A,T,C or G

<400> 221  
 actangtgca ggtgcgcaca aatatttgct gatattccct tcattcttga ttccatgagg 60  
 tcttttgccc agcctgtggc tctactgtag taagtttctg ctgatgagga gccagnatgc 120  
 cccccactac cttccctgac gctcccccana aatcacccaa cctctgt 167

<210> 222  
 <211> 351  
 <212> DNA  
 <213> Homo sapien

<400> 222  
 agggcgtggt gcgaggggcg gtactgacct cattagtagg aggatgcatt ctggcacccc 60  
 gttctttcacc tgtcccccaa tccttaaaaag gccatactgc ataaagtcaa caacagataa 120  
 atgtttgctg aattaaagga tggatgaaaa aaattaataa tgaatttttg cataatccaa 180  
 ttttctcttt tatatttcta gaagaagttt ctttgagcct attagatccc gggaatcttt 240  
 taggtgagca tgattagaga gcttgtaggt tgctttttaca tatactctggc atatttgagt 300  
 ctcgtatcaa aacaatagat tggtaaaggt ggtattattg tattgataag t 351

<210> 223  
 <211> 383  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(383)  
 <223> n = A,T,C or G

<400> 223  
 aaaacaaaca aacaaaaaaa acaattcttc attcagaaaa attatcttag ggactgatat 60  
 tggtaattat ggtcaattta atwrttrtkt ggggcatttc cttacattgt cttgacaaga 120

78

ttaaaatgtc	tgtgccaaaa	ttttgtat	tatttgagaga	cttcttatca	aaagtaatgc	180
tgccaaagga	agtctaagga	attagtagtg	ttcccmtcac	ttgtttggag	tgtgctat	240
taaaagattt	tgatttcctg	gaatgacaat	tatattttaa	ctttgggtggg	ggaaanagtt	300
ataggaccac	agtcttcact	tctgatactt	gtaaattaat	cttttattgc	acttgttttg	360
accattaagc	tatatgttta	aaa				383

<210> 224  
 <211> 320  
 <212> DNA  
 <213> Homo sapien

<400> 224						
cccctgaagg	cttcttggtta	gaaaatagta	cagttacaac	caataggaac	aacaaaaaga	60
aaaagtttgt	gacattgtag	tagggagtgt	gtacccctta	ctcccatca	aaaaaaaaat	120
ggatacatgg	ttaaaggata	raagggaat	attttatcat	atgttctaaa	agagaaggaa	180
gagaaaatac	tactttctcr	aaatggaagc	ccttaaagggt	gctttgatac	tgaaggacac	240
aaatgtggcc	gtccatcctc	ctttaragtt	gcatgacttg	gacacggtaa	ctgttgca	300
tttaractcm	gcattgtgac					320

<210> 225  
 <211> 1214  
 <212> DNA  
 <213> Homo sapien

<400> 225						
gaggactgca	gcccgctc	gcagccctgg	caggcggcac	tggtcatgga	aaacgaattg	60
ttctgctogg	gcgtcctgg	gcaccccgag	tggtgtgtgt	cagccgcaca	ctgtttccag	120
aaactcctaca	ccatcggtc	gggcctgcac	agtcttgagg	ccgaccaaga	gccagggagc	180
cagatgggtg	aggccagcct	ctccgtacgg	caccagaggt	acaacagacc	cttgctcgct	240
aacgacctoa	tgctcatcaa	gttgagcgaa	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattg	cttcgcagtg	ccctaccgcg	gggaactcct	gcctcgtttc	tggtgggggt	360
ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	tgaacgtgtc	ggtgggtgtc	420
gaggagggtc	gcagtaagct	ctatgaccgc	ctgtaccacc	ccagcatgtt	ctgcgcgggc	480
ggaggggcaag	accagaagga	ctcctgcaac	ggtgactctg	ggggggccct	gatctgcaac	540
gggtactttg	agggccttgt	gtctttcgga	aaagccccgt	gtggccaagt	tggtgtgcca	600
ggtgtctaca	ccaacctctg	caaattcact	gagtggatag	agaaaaccgt	ccaggccagt	660
taactctggg	gactgggaac	ccatgaaatt	gacccccaaa	tacatcctgc	ggaaggaatt	720
caggaatatc	tgttcccagc	ccctcctccc	tcaggcccag	gagtcaggcc	ccccagcccc	780
tcctccctca	aaccaagggt	acagatcccc	agccctcctc	ccctcagacc	caggagtcca	840
gacccccag	cccctcctcc	ctcagaccga	ggagtccagc	ccctcctccc	tcagacccag	900
gagtcagagc	ccccagccc	ctcctccctc	agacccaggg	gtccaggccc	ccaaccctc	960
ctccctcaga	ctcagaggtc	caagccccc	acccctcctt	ccccagacc	agagggtccag	1020
gtcccagccc	ctcctccctc	agacccagcg	gtccaatgcc	acctagactc	tcctgtgaca	1080
cagtgcctcc	ttgtggcacg	ttgacccaac	cttaccagtt	ggtttttcat	tttttgtccc	1140
tttcccctag	atccagaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

<210> 226  
 <211> 119  
 <212> DNA  
 <213> Homo sapien

<400> 226						
accagtatg	tgagggaga	cggaacccca	tgtgacagcc	caactccacca	gggttcccaa	60
agaacctggc	ccagtcataa	tcattcatcc	tgacagtggc	aataatcacg	ataaccagt	119

<210> 227  
 <211> 818



<212> DNA  
<213> Homo sapien

<400> 227  
acaattcata gggacgacca atgaggacag ggaatgaacc cggctctccc ccagccctga 60  
tttttgctac atatggggtc ctttttcatt ctttgcaaaa aacttgggtt ttctgagaac 120  
acggacgggt ctttagcacia tttgtgaaat ctgtgtaraa ccgggctttg caggggagat 180  
aattttctct ctctggagga aaggtgggtga ttgacaggca gggagacagt gacaaggcta 240  
gagaaagcca cgctcggcct tctctgaacc aggatggaac ggcagacccc tgaaaacgaa 300  
gcttggtccc ttccaatcag ccaacttctga gaacccccat ctaacttcct actggaaaag 360  
agggcctcct caggagcagt ccaagagttt tcaaagataa cgtgacaact accatctaga 420  
ggaaaggggt caccctcagc agagaagccg agagcttaac tctggtcgtt tccagagaca 480  
acctgctggc tgtcttgagg tgcgcccagc ctttgagagg ccactacccc atgaacttct 540  
gccatccact ggacatgaag ctgaggacac tgggcttcaa cactgagttg tcatgagagg 600  
gacagcctct gccctcaagc cggctgaggg cagcaaccac tctcctcccc ttctcacgc 660  
aaagccattc ccacaaatcc agaccatacc atgaagcaac gagaccctaa cagtttgggt 720  
caagaggata tgaggactgt ctacgcctgg ctttgggctg acaccatgca cacacacaag 780  
gtccacttct aggttttcag cctagatggg agtcgtgt 818

<210> 228  
<211> 744  
<212> DNA  
<213> Homo sapien

<400> 228  
actggagaca ctgttgaact tgatcaagac ccagaccacc ccaggtctcc ttctgtggat 60  
gtcatgacgt ttgacatacc tttggaacga gcctcctcct tggaagatgg aagaccgtgt 120  
tcgtggccga cctggcctct cctggcctgt ttcttaagat gcggagtcac atttcaatgg 180  
taggaaaagt ggcttctgtaa aatagaagag cagtcactgt ggaactacca aatggcgaga 240  
tgctcgggtg acattgggggt gctttgggat aaaagattta tgagccaact attctctggc 300  
accagattct aggccagttt gttccactga agcttttccc acagcagtcc acctctgcag 360  
gctggcagct gaatggcctt cgggtggctc tgtggcaaga tcacactgag atcgatgggt 420  
gagaaggcta ggaatgcttg ctagtgttct tagctgtcac gttggctcct tccaggttgg 480  
ccagacgggt ttggccactc ccttctaaaa caccggcgcc ctctgggtga cagtgaaccg 540  
ccgtgggtat ccttggccca ttccagcagt ccagttatg catttcaagt ttggggtttg 600  
ttcttttctg taatgttctt ctgtgtgtgc agctgtcttc atttcctggg ctaagcagca 660  
ttgggagatg tggaccagag atccactcct taagaaccag tggcgaaaaga cactttcttt 720  
cttcaactct aagtagctgg tgg 744

<210> 229  
<211> 300  
<212> DNA  
<213> Homo sapien

<400> 229  
cgagtctggg ttttgtctat aaagtttgat cctcctttt ctcatccaaa tcatgtgaac 60  
cattacacat cgaaataaaa gaaaggtggc agacttgccc aacgccaggc tgacatgtgc 120  
tgcaggggtt ttgtttttta attattattt ttagaaacgt caccacagt cctgtttaat 180  
ttgtatgtga cagccaactc tgagaaggct ctatttttcc acctgcagag gatccagtct 240  
cactaggctc ctcttggccc tcacactgga gtctccgcca gtgtgggtgc ccactgacat 300

<210> 230  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 230  
cagcagaaca aatacaataa tgaagagtgc aaagatctca taaaatctat gctgaggaat 60

80

gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120
caatataaag	tcctgggttca	cactcaggaa	cgagagctga	cccagttaag	ggagaagttg	180
cggaagggga	gagatgcctc	cctctcattg	aatgagcatc	tccaggccct	cctcactccg	240
gatgaaccgg	acaagtccca	ggggcaggac	ctccaagaaa	cagacctcgg	ccgcgaccac	300
g						301

<210> 231  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 231						
gcaagcacgc	tggcaaatct	ctgtcaggtc	agctccagag	aagccattag	tcatttttagc	60
caggaactcc	aagtccacat	ccttggcaac	tggggacttg	cgcaggttag	ccttgaggat	120
ggcaacacgg	gacttctcat	caggaagtgg	gatgtagatg	agctgatcaa	gacggccagg	180
tctgaggatg	gcaggatcaa	tgatgtcagg	ccggttggtg	ccgccaatga	tgaacacatt	240
tttttttgtg	gacatgccat	ccatttctgt	caggatctgg	ttgatgactc	ggtcagcagc	300
c						301

<210> 232  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 232						
agtaggtatt	tcgtgagaag	ttcaacacca	aaactggaac	atagttctcc	ttcaagtgtt	60
ggcgacagcg	gggcttcctg	attctggaat	ataactttgt	gtaaattaac	agccacctat	120
agaagagtcc	atctgctgtg	aaggagagac	agagaactct	gggttccgtc	gtcctgtcca	180
cgtgctgtac	caagtgctgg	tgccagcctg	ttacctgttc	tactgaaaa	tctggctaata	240
gctcttgtgt	atcacttctg	attctgacaa	tcaatcaatc	aatggcctag	agcactgact	300
g						301

<210> 233  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 233						
atgactgact	tcccagtaag	gctctctaag	gggtaagtag	gaggatccac	aggatttgag	60
atgctaaggc	cccagagatc	gtttgatcca	accctcttat	tttcagaggg	gaaaatgggg	120
cctagaagtt	acagagcatc	tagctgggtg	gctggcaccc	ctggcctcac	acagactccc	180
gagtagctgg	gactacaggc	acacagtcac	tgaagcaggc	cctgttagca	attctatgcg	240
tacaaattaa	catgagatga	gtagagactt	tattgagaaa	gcaagagaaa	atcctatcaa	300
c						301

<210> 234  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 234						
aggtcctaca	catcgagact	catccatgat	tgatatgaat	ttaaaaatta	caagcaaaga	60
cattttattc	atcatgatgc	tttcttttgt	ttcttctttt	cgttttcttc	tttttctttt	120
tcaatttcag	caacatactt	ctcaatttct	tcaggattta	aaatcttgag	ggattgatct	180
cgccctcatga	cagcaagttc	aatgtttttg	ccacctgact	gaaccacttc	caggagtgcc	240
ttgatcacca	gcttaatggg	cagatcatct	gcttcaatgg	cttcgtcagt	atagttcttc	300
t						301

## 81

<210> 235  
 <211> 283  
 <212> DNA  
 <213> Homo sapien

<400> 235  
 tggggctgtg catcaggcgg gtttgagaaa tattcaattc tcagcagaag ccagaatttg 60  
 aattccctca tcttttaggg aatcatttac caggtttgggaggattcag acagctcagg 120  
 tgctttcact aatgtctctg aacttctgtc cctctttgtt catggatagt ccaataaata 180  
 atgttatctt tgaactgatg ctcataggag agaataaag aactctgagt gatatcaaca 240  
 ttagggattc aaagaaatat tagatttaag ctcacactgg tca 283

<210> 236  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 236  
 aggtcctcca ccaactgcct gaagcacggg taaaattggg aagaagtata gtgcagcata 60  
 aatactttta aatcgatcag atttccctaa cccacatgca atcttcttca ccagaagagg 120  
 tcggagcagc atcattaata ccaagcagaa tgcgtaatag ataaatacaa tgggtatatag 180  
 tgggtagaag gcttcatgag tacagtgtac tgtgggtatcg taatctggac ttgggttgta 240  
 aagcatcgtg taccagtcag aaagcatcaa tactcgacat gaacgaatat aaagaacacc 300  
 a 301

<210> 237  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 237  
 cagtggtagt ggtgggtggac gtggcggttg togtgggtgcc ttttttgggtg cccgtcacaa 60  
 actcaatttt tgttcgctcc tttttggcct tttccaattt gtccatctca attttctggg 120  
 ccttggtctaa tgcctcatag taggagtcct cagaccagcc atggggatca aacatatact 180  
 ttgggtagtt ggtgccaaagc tcgtcaatgg cacagaatgg atcagcttct cgtaaatacta 240  
 gggttccgaa attctttctt cctttggata atgtagttca tatccattcc ctccctttatc 300  
 t 301

<210> 238  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 238  
 gggcaggttt tttttttttt ttttttgatg gtgcagaccc ttgctttatt tgtctgactt 60  
 gttcacagtt cagccccctg ctcaaaaaac caacgggcca gctaaggaga ggaggaggca 120  
 ccttgagact tccggagtcg aggtctctca gggttcccca gcccatcaat cattttctgc 180  
 accccctgcc tgggaagcag ctccctgggg ggtgggaatg ggtgactaga agggatttca 240  
 gtgtgggacc cagggtctgt tcttcacagt aggaggtgga agggatgact aatttcttta 300  
 t 301

<210> 239  
 <211> 239  
 <212> DNA  
 <213> Homo sapien

<400> 239  
 ataagcagct aggggaattct ttatttagta atgtcctaac ataaaagttc acataactgc 60

ttctgtcaaa	ccatgatact	gagctttgtg	acaaccaga	aataactaag	agaaggcaaa	120
cataatacct	tagagatcaa	gaaacattta	cacagttcaa	ctgtttaaaa	atagctcaac	180
attcagccag	tgagtagagt	gtgaatgcca	gcatacacag	tatacaggtc	cttcaggga	239

<210> 240  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<400> 240						
ggtcctaagt	aagcagcagc	ttccacattt	taacgcaggt	ttacgggtgat	actgtccttt	60
gggatctgcc	ctccagtggg	accttttaag	gaagaagtgg	gccaagcta	agttccacat	120
gctgggtgag	ccagatgact	tctgttcctt	ggtcactttc	ttcaatgggg	cgaatggggg	180
ctgccagggt	tttaaaatca	tgcttcatct	tgaagcacac	ggtcacttca	ccctcctcac	240
gctgtgggtg	tactttgatg	aaaataccca	ctttgttggc	ctttctgaag	ctataatgtc	300

<210> 241  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 241						
gaggtctggt	gctgaggtct	ctgggctagg	aagaggagtt	ctgtggagct	ggaagccaga	60
cctcttttga	ggaaactcca	gcagctatgt	tggtgtctct	gaggggaatgc	aacaaggctg	120
ctcctccatg	tattggaaaa	ctgcaaaactg	gactcaactg	gaaggaagtg	ctgctgccag	180
tgtgaagaac	cagcctgagg	tgacagaaac	ggaagcaaac	aggaacagcc	agtcttttct	240
tcctcctcct	gtcatacggg	ctctctcaag	catcctttgt	tgtcaggggc	ctaaaaggga	300
g						301

<210> 242  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 242						
ccgaggtcct	gggatgcaac	caatcactct	gtttcacgtg	acttttatca	ccatacaatt	60
tgtggcattt	cctcattttc	tacattgtag	aatcaagagt	gtaaaataat	gtatatcgat	120
gtcttcaaga	atataatcatt	cctttttcac	tagaaccat	tcaaaatata	agtcaagaat	180
cttaatatca	acaaatatat	caagcaaact	ggaaggcaga	ataactacca	taatttagta	240
taagtaccca	aagttttata	aatcaaaagc	cctaattgata	accattttta	gaattcaatc	300
a						301

<210> 243  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 243						
aggtaagtcc	cagtttgaag	ctcaaaagat	ctggtatgag	catagggtca	tcgacgacat	60
ggtggcccaa	gctatgaaat	cagagggagg	cttcatcttg	gcctgtaaaa	actatgatgg	120
tgacgtgcag	tcggactctg	tggcccaagg	gtatggctct	ctcggcatga	tgaccagcgt	180
gctggtttgt	ccagatggca	agacagtaga	agcagaggct	gcccacggga	ctgtaacccg	240
tcactaccgc	atgttccaga	aaggacagga	gacgtccacc	aatccattg	cttccatttt	300
t						301

<210> 244  
 <211> 300  
 <212> DNA

<213> Homo sapien

<400> 244

gctgggtttgc	aagaatgaaa	tgaatgattc	tacagctagg	acttaacctt	gaaatggaaa	60
gtcatgcaat	cccatttgca	ggatctgtct	gtgcacatgc	ctctgtagag	agcagcattc	120
ccagggacct	tggaacagct	tgacactgta	aggtgcttgc	tccccaagac	acatcctaaa	180
aggtgttgta	atggtgaaaa	cgtcttcctt	ctttattgcc	ccttcttatt	tatgtgaaca	240
actgtttgtc	ttttgtgtat	ctttttttaa	ctgtaaagtt	caattgtgaa	aatgaatatc	300

<210> 245

<211> 301

<212> DNA

<213> Homo sapien

<400> 245

gtctgagtat	ttaaaatggt	attgaaatta	tccccaacca	atgttagaaa	agaaagaggt	60
tatatactta	gataaaaaat	gaggtgaatt	actatccatt	gaaatcatgc	tcttagaatt	120
aaggccagga	gatattgtca	ttaatgtara	cttcaggaca	ctagagtata	gcagccctat	180
gttttcaaag	agcagagatg	caattaaata	ttgttttagca	tcaaaaaggc	cactcaatac	240
agctaataaa	atgaaagacc	taatttctaa	agcaattcct	tataatttac	aaagttttaa	300
g						301

<210> 246

<211> 301

<212> DNA

<213> Homo sapien

<400> 246

ggctctgtcct	acaatgcctg	cttcttgaaa	gaagtcggca	ctttctagaa	tagctaaata	60
acctggggctt	atttttaaaga	actatttgta	gttcagattg	gttttcctat	ggctaaaata	120
agtgtcttctt	gtgaaaatta	aataaaacag	ttaattcaaa	gccttgatat	atgttaccac	180
taacaatcat	actaaatata	ttttgaagta	caaagtttga	catgctctaa	agtgacaacc	240
caaattgtgtc	ttacaaaaca	cgttcctaac	aaggtatgct	ttacactacc	aatgcagaaa	300
c						301

<210> 247

<211> 301

<212> DNA

<213> Homo sapien

<400> 247

aggtcctttg	gcagggctca	tggatcagag	ctcaaactgg	agggaaaggc	atttcgggta	60
gcctaagagg	gcgactggcg	gcagcacaa	caaggaaggc	aaggttggtt	ccccacgct	120
gtgtcctgtg	ttcagggtgcg	acacacaatc	ctcatgggaa	caggatcacc	catgcgctgc	180
ccttgatgat	caaggttggg	gcttaagtgg	attaagggag	gcaagttctg	ggttccttgc	240
cttttcaaac	catgaagtca	ggctctgtat	ccctcctttt	cctaactgat	attctaacta	300
a						301

<210> 248

<211> 301

<212> DNA

<213> Homo sapien

<400> 248

aggtccttgg	agatgccatt	tcagccgaag	gaactcttctw	ttcggaagta	cacctcact	60
attaggaaga	ttcttagggg	taatttttct	gaggaaggag	aactagccaa	cttaagaatt	120
acaggaagaa	agtgttttgg	aagacagcca	aagaaataaa	agcagattaa	attgtatcag	180
gtacattcca	gcctgtttgg	aactccataa	aaacattttca	gatttttaatc	ccgaatttag	240

ctaattgagac tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc 300  
c 301

<210> 249  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 249  
gtccagagga agcacctggt gctgaactag gcttgccctg ctgtgaactt gcacttggag 60  
ccctgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgtcccgcgc 120  
ccagggagac acagcagtga ctccagagctg gtgcgacact gtgcctccct cctcaccgcc 180  
catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag 240  
actgaatcct tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt 300  
a 301

<210> 250  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 250  
ggctctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaacac tacactttctc 60  
cttatctttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc 120  
cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac 180  
ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta 240  
caataaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc 300  
a 301

<210> 251  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 251  
gcagaggtcc tacatttggc ccagttttcc cctgcacatc ctccaggggc cctgcctcat 60  
agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat 120  
ggcagggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct 180  
cattggggtc atcgaagaag ttcaagaaat cttcaggctc actctcttga aggcccgga 240  
cctctggagg ggggcagtgg aatcccagct ccaggacgga tcctgtcgaa aagatatcct 300  
c 301

<210> 252  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 252  
gcaaccaatc actctgtttc acgtgacttt tatcaccata caatttgtgg catttcctca 60  
ttttctacat tgtagaatca agagtgtaaa taaatgtata tcgatgtctt caagaatata 120  
tcatttcctt ttccactagga acccattcaa aatataagtc aagaatctta atatcaacaa 180  
atatatcaag caaactggaa ggcagaataa ctaccataat ttagtataag tacccaaagt 240  
tttataaatc aaaagcccta atgataacca tttttagaat tcaatcatca ctgtagaatc 300  
a 301

<210> 253  
<211> 301  
<212> DNA

85

&lt;213&gt; Homo sapien

&lt;400&gt; 253

ttccctaaga	agatgttatt	ttgttgggtt	ttgttcccc	tccatctcga	ttctcgtacc	60
caactaaaaa	aaaaaaataa	agaaaaaatg	tgctgcgttc	tgaaaaataa	ctccttagct	120
tggtctgatt	gttttcagac	cttaaaatat	aaacttggtt	cacaagcttt	aatccatgtg	180
gatttttttt	cttagagAAC	cacaaaacat	aaaaggagca	agtcggactg	aatacctgtt	240
tccatagtgc	ccacagggtA	ttcctcacat	tttctccata	ggaaaatgct	ttttcccaag	300
g						301

&lt;210&gt; 254

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 254

cgctgcgcct	ttcccttggg	ggaggggcaa	ggccagaggg	ggtccaagtg	cagcacgagg	60
aacttgacca	attcccttga	agcgggtggg	ttaaaccctg	taaatgggaa	caaaatcccc	120
ccaaatctct	tcatcttacc	ctggtggact	cctgactgta	gaattttttg	gttgaaacaa	180
gaaaaaata	aagctttgga	cttttcaagg	ttgcttaaca	ggtactgaaa	gactggcctc	240
acttaaactg	agccaggaaa	agctgcagat	ttattaatgg	gtgtgttagt	gtgcagtgcc	300
t						301

&lt;210&gt; 255

&lt;211&gt; 302

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 255

agcttttttt	tttttttttt	tttttttttt	ttcattaaaa	aatagtgtct	tttattataa	60
attaactgaa	tgtttctttt	ctgaatataa	atataaatat	gtgcaaagtt	tgacttggat	120
tgggattttg	ttgagttctt	caagcatctc	ctaataccct	caagggcctg	agtagggggg	180
aggaaaaagg	actggagggt	gaatctttat	aaaaaacaag	agtgattgag	gcagattgta	240
aacattatta	aaaaacaaga	aacaaacaaa	aaaatagaga	aaaaaaaccac	cccaacacac	300
aa						302

&lt;210&gt; 256

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(301)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 256

gttccagaaa	acattgaagg	tggcttccca	aagtctaact	agggataccc	cctctagcct	60
aggaccctcc	tccccacacc	tcaatocacc	aaaccatcca	taatgcaccc	agataggccc	120
acccccaaaa	gcttggacac	cttgagcaca	cagttatgac	caggacagac	tcatctctat	180
aggcaaatag	ctgctggcaa	actggcatta	cctggtttgt	ggggatgggg	gggcaagtgt	240
gtggcctctc	ggcctgggtA	gcaagaacat	tcagggtagg	cctaagttan	tcgtgttagt	300
t						301

&lt;210&gt; 257

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

<400>	257						
gttggtggagg	aactotggct	tgctcattaa	gtcctactga	ttttcactat	cccctgaatt		60
tccccactta	tttttgtott	tcactatcgc	aggccttaga	agaggcttac	ctgcoctccag		120
tcttacctag	tccagtctac	cccctggagt	tagaatggcc	atcctgaagt	gaaaagtaat		180
gtcacattac	tcccttcagt	gattttcttgt	agaagtgcc	atccctgaat	gccaccaaga		240
tcttaatctt	cacatcttta	atcttatctc	tttgactcct	ctttacaccg	gagaaggctc		300
c							301

```
<210> 258
<211> 301
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(301)  
<223> n = A,T,C or G
```

<400>	258					
cagcagtagt	agatgccgta	tgccagcacg	cccagcactc	ccaggatcag	caccagcacc	60
aggggcccag	ccaccaggcg	cagaagcaag	ataaacagta	ggctcaagac	cagagccacc	120
cccaggggcaa	caagaatcca	ataccaggac	tgggcaaaat	cttcaaagat	cttaacactg	180
atgtctcggg	cattgaggct	gtcaataana	cgctgatccc	ctgctgtatg	gtgggtgtcat	240
tggtgatccc	tgggagcgcc	ggtggagtaa	cgttggtcca	tggaaagcag	cgcccacaac	300
t						301

```
<210> 259
<211> 301
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(301)  
<223> n = A,T,C or G
```

<400>	259					
tcatatatgc	aaacaaatgc	agactangcc	tcaggcagag	actaaaggac	atctctttggg	60
gtgtcctgaa	gtgatttgga	cccctgaggg	cagacaccta	agttaggaatc	ccagtgggaa	120
gcaaagccat	aaggaagccc	aggattcctt	gtgatcagga	agtggggccag	gaaggtctgt	180
tccagctcac	atctcatctg	catgcagcac	ggaccgga	cgccccactgg	gtctttggctt	240
ccctcccatc	ttctcaagca	gtgtccttgt	tgagccattt	gcataccttgg	ctccaggtgg	300
c						301

```
<210> 260
<211> 301
<212> DNA
<213> Homo sapien
```

<400>	260					
tttttttttct	ccctaaggaa	aaagaaggaa	caagtctcat	aaaaccaaat	aagcaatggt	60
aaggtgtctt	aacttgaaaa	agattaggag	tactgtgtt	acaagttata	attgaatgaa	120
agaactgtaa	cagccacagt	tggccatttc	atgccaatgg	cagcaaacaa	caggattaac	180
tagggcaaaa	taaataagtg	tgtggaagcc	ctgataagtg	cttaataaac	agactgattc	240
actgagacat	cagtacctgc	cggggcggcc	gctcgagccg	aattctgcag	atatccatca	300
c						301



87

<210> 261  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 261  
 aaatattcga gcaaatacctg taactaatgt gtctccataa aaggctttga actcagtga 60  
 tctgcttcca tccacgattc tagcaatgac ctctcggaca tcaaagctcc tcttaagggtt 120  
 agcaccaact attocatata attcatcagc aggaaataaa ggctcttcag aaggttcaat 180  
 ggtgacatcc aattttcttct gataatttag attcctcaca accttcctag ttaagtgaag 240  
 ggcatgatga tcatccaaag cccagtggtc acttactcca gactttctgc aatgaagatc 300  
 a 301

<210> 262  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 262  
 gaggagagcc tgttacagca tttgtaagca cagaatactc caggagtatt tgtaattgtc 60  
 tgtgagcttc ttgccgcaag tctctcagaa atttaaaaag atgcaaatacc ctgagtcacc 120  
 cctagacttc ctaaaccaga tcctctgggg ctggaacctg gcactctgca tttgtaatga 180  
 gggctttctg gtgcacacct aattttgtgc atctttgccc taaatcctgg attagtcccc 240  
 catcattacc cccacattat aatgggatag attcagagca gatactctcc agcaaagaat 300  
 c 301

<210> 263  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 263  
 tttagcttgt ggtaaatgac tcacaaaact gatttttaaaa tcaagttaat gtgaattttg 60  
 aaaattacta cttaatccta attcacaata acaatggcat taagggttga cttgagttgg 120  
 ttcttagtat tatttatggg aaataggctc ttaccacttg caaataactg gccacatcat 180  
 taatgactga cttcccagta aggtctctta aggggtaagt angaggatcc acaggatttg 240  
 agatgctaag gccccagaga tcgtttgatc caacctctt attttcagag gggaaaatgg 300  
 g 301

<210> 264  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 264  
 aaagacgtta aaccactcta ctaccacttg tggaactctc aaagggtaaa tgacaaascc 60  
 aatgaatgac tctaaaaaca atatttacat ttaatggttt gtagacaata aaaaaacaag 120  
 gtggatagat ctagaattgt aacattttta gaaaaccata scatttgaca gatgagaaag 180  
 ctcaattata gatgcaaagt tataactaaa ctactatagt agtaaagaaa tacatttcac 240  
 acccttcata taaattcact atcttggtt gaggcactcc ataaaatgta tcacgtgcat 300  
 a 301

<210> 265

88

<211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 265  
 tgcccaagtt atgtgtaagt gtatccgcac ccagaggtaa aactacactg tcatctttgt 60  
 cttcttgtga cgcagtatct cttctctggg gagaagccgg gaagtcttct cctggctcta 120  
 catattcttg gaagtctcta atcaactttt gttccatttg tttcatttct tcaggaggga 180  
 ttttcagttt gtcaacatgt tctctaacaa cacttgccca tttctgtaaa gaatccaaag 240  
 cagtccaagg ctttgacatg tcaacaacca gcataactag agtatccttc agagatacgg 300  
 c 301

<210> 266  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 266  
 taccgtctgc ctttctctcc atccaggcca tctgcgaatc tacatgggtc ctctatttcg 60  
 acaccagatc actctttcct ctaccacag gcttgctatg agcaagagac acaacctcct 120  
 ctcttctgtg ttccagcttc ttttctgtgt cttcccaccc cttaagttct attcctgggg 180  
 atagagacac caatacccat aacctctctc ctaagcctcc ttataaccca ggggtgcacag 240  
 cacagactcc tgacaactgg taaggccaat gaactgggag ctcacagctg gctgtgcctg 300  
 a 301

<210> 267  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 267  
 aaagagcaca ggccagctca gcctgccctg gccatctaga ctccagcctg ctccatgggg 60  
 gttctcagtg ctgagtccat ccaggaaaag ctcacctaga cttcttgagg ctgaatcttc 120  
 atcctcacag gcagcttctg agagcctgat attcctagcc ttgatgggtc ggagtaaagc 180  
 ctcatcttga ttcctctcct tcttttcttt caagttggct ttcttcacat ccctctgttc 240  
 aattogcttc agcttgtctg ctttagccct catttccaga agcttcttct ctttggcatc 300  
 t 301

<210> 268  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 268  
 aatgtctcac tcaactactt ccagccctac cgtggcctaa ttctgggagt tttcttctta 60  
 gatcttggga gagctggttc ttctaaggag aaggaggaag gacagatgta actttggatc 120  
 tcgaagagga agtctaattg aagtaattag tcaacggtcc ttgttttagac tcttggata 180  
 tgctgggtgg ctcatgagc ctttttggag aaagcaagta ttattcttaa ggagtaacca 240  
 cttcccatg ttctactttc taccatcatc aattgtatat tatgtattct ttggagaact 300  
 a 301

<210> 269  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 269  
 taacaatata cactagctat ctttttaact gtccatcatt agcaccaatg aagattcaat 60

89

```

aaaattacct ttattcacac atctcaaaac aattctgcaa attcttagtg aagtttaact 120
atagtcacag accttaaata ttcacattgt tttctatgtc tactgaaaat aagttcacta 180
cttttctgga tattctttac aaaatcttat taaaattcct ggtattatca cccccaatta 240
tacagtagca caaccacctt atgtagtttt tacatgatag ctctgtagaa gtttcacatc 300
t 301

```

```

<210> 270
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 270
cattgaagag cttttgcgaa acatcagaac acaagtgcctt ataaaattaa ttaagcctta 60
cacaagaata catattcctt ttatttctaa ggagttaaac atagatgtag ctgatgtgga 120
gagcttgctg gtgcagtgca tattggataa cactattcat ggccgaattg atcaagtcaa 180
ccaactcctt gaactggatc atcagaagaa gggtggtgca cgatatactg cactagataa 240
tggaccaacc aactaaattc tctcaccagg ctgtatcagt aaactggctt aacagaaaac 300
a 301

```

```

<210> 271
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 271
aaaaggttct cataagatta acaattttaa taaatatttg atagaacatt ctttctcatt 60
tttatagctc atcttttaggg ttgatattca gttcatgctt cccttgctgt tcttgatoca 120
gaattgcaat cacttcatca gcctgtattc gctccaattc tctataaagt ggggtccaagg 180
tgaaccacag agccacagca cacctctttc ccttggtgac tgccttcacc ccatganggt 240
tctctcctcc agatganaac tgatcatgcg ccacattttt gggttttata gaagcagtca 300
c 301

```

```

<210> 272
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 272
taaattgcta agccacagat aacaccaatc aaatggaaca aatcactgtc ttcaaagtgc 60
ttatcagaaa accaaatgag cctggaatct tcataatacc taaacatgcc gtatttagga 120
tccaataatt ccctcatgat gagcaagaaa aattctttgc gcacctctcc tgcattccaca 180
gcatctttct caacaaatat aaccttgagt ggcttcttgt aatctatgtt ctttgttttc 240
ctaaggactt ccattgcatc tcctacaata ttttctctac gcaccactag aattaagcag 300
g 301

```

```

<210> 273
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)

```

90

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 273

```

acatgtgtgt atgtgtatct ttgggaaaaa aanaagacat cttgtttayt attttttttg 60
agagangctg ggacatggat aatcacwtaa tttgctayta tyactttaat ctgactygaa 120
gaaccgtcta aaaataaaaat ttaccatgtc dtatatccct tatagtatgc ttatttcacc 180
ttytttctgt ccagagagag tatcagtgac ananatttma ggggtgaamac atgmattggt 240
gggacttnty tttaacngagm accctgcccg sgcgccctcg makongantt ccgcsananc 300
t

```

&lt;210&gt; 274

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(301)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 274

```

cttatatact ctttctcaga ggcaaaagag gagatgggta atgtagacaa ttctttgagg 60
aacagtaaat gattattaga gagaangaat ggaccaagga gacagaaatt aacttgtaaa 120
tgattctctt tggaatctga atgagatcaa gaggccagct ttagcttggtg gaaaagtcca 180
tctaggtatg gttgcattct cgtcttcttt tctgcagtag ataatgaggt aaccgaaggc 240
aattgtgctt cttttgataa gaagctttct tggtcatatc aggaaattcc aganaaaagtc 300
c

```

&lt;210&gt; 275

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(301)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 275

```

tcggtgtcag cagcacgtgg cattgaacat tgcaatgtgg agcccaaacc acagaaaatg 60
gggtgaaatt ggccaacttt ctattaactt atgttggcaa ttttgccacc aacagtaagc 120
tggtcccttct aataaaaagaa aattgaaagg tttctcacta aacggaatta agtagtgag 180
tcaagagact cccaggcctc agcgtacctg cccggggcgc cgctcgaagc cgaattctgc 240
agatatccat cacactggcg gncgctcgan catgcatcta gaaggnccaa ttcgccctat 300
a

```

&lt;210&gt; 276

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 276

```

tgtacacata ctcaataaat aaatgactgc attgtggtat tattactata ctgattatat 60
ttatcatgtg acttctaatt agaaaatgta tccaaaagca aaacagcaga tatacaaaat 120
taaagagaca gaagatagac attaacagat aaggcaactt atacattgag aatccaaatc 180
caatacatth aaacatttgg gaaatgaggg ggacaaatgg aagccagatc aaatttgtgt 240
aaaactatth agtatgtttc cttgcttca tgtctgagaa ggctctcctt caatggggat 300
g

```

<210> 277  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 277  
 tttgttgatg tcagttatttt attacttgcg ttatgagtgc tcacctggga aattctaaag 60  
 atacagagga cttggaggaa gcagagcaac tgaatttaaat ttaaaagaag gaaaacattg 120  
 gaatcatggc actcctgata ctttcccaaa tcaacactct caatgcccc ccctcgctct 180  
 caccatagtg gggagactaa agtggccacg gatttgcctt angtgtgcag tgcgttctga 240  
 gttcncctgtc gattacatct gaccagtctc ctttttccga agtccttccg ttcaatcttg 300  
 c 301

<210> 278  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 278  
 taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat 60  
 aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca 120  
 cagtctctac tggtattatg cattacctgg gaatttataat aagcccttaa taataatgcc 180  
 aatgaacatc tcatgtgtgc tcacaatgtt ctggcactat tataagtgtc tcacagggtt 240  
 tatgtgttct tcgtaacttt atggantagg tactcggccg cgaacacgct aagccgaatt 300  
 c 301

<210> 279  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 279  
 aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60  
 gttatatata ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120  
 ttagaccttt accttccagc caccocacag tgcttgatat ttcagagtca gtcattgggt 180  
 atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240  
 catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300  
 a 301

<210> 280  
 <211> 301  
 <212> DNA

<213> Homo sapien

<400> 280

ggtactggag	ttttcctccc	ctgtgaaaac	gtaactactg	ttgggagtga	attgaggatg	60
tagaaaggtg	gtggaaccaa	attgtggtca	atggaaatag	gagaatatgg	ttctcactct	120
tgagaaaaaa	acctaagatt	agcccaggta	gttgccctgta	acttcagttt	ttctgcctgg	180
gtttgatata	gttttagggtt	ggggtttagat	taagatctaa	attacatcag	gacaaagaga	240
cagactatta	actccacagt	taattaagga	ggtatgttcc	atgtttattt	gttaaagcag	300
t						301

<210> 281

<211> 301

<212> DNA

<213> Homo sapien

<400> 281

aggtacaaga	aggggaatgg	gaaagagctg	ctgctgtggc	attgttcaac	ttggatattc	60
gccgagcaat	ccaaatcctg	aatgaagggg	catcttctga	aaaaggagat	ctgaatctca	120
atgtggtagc	aatggcttta	tcgggttata	cggatgagaa	gaactccctt	tggagagaaa	180
tgtgtagcac	actgcgatta	cagctaaata	acccgtatct	gtgtgtcatg	tttgcatttc	240
tgacaagtga	aacaggatct	tacgatggag	ttttgtatga	aaacaaagtt	gcagtacctc	300
g						301

<210> 282

<211> 301

<212> DNA

<213> Homo sapien

<400> 282

cagggtactac	agaattaaaa	tactgacaag	caagtagttt	cttggcgtgc	acgaattgca	60
tccagaaccc	aaaaattaag	aaattcaaaa	agacattttg	tgggcacctg	ctagcacaga	120
agcgcagaag	caaagcccag	gcagaaccat	gctaacctta	cagctcagcc	tgcacagaag	180
cgcaagaagc	aagcccaggc	agaaccatgc	taaccttaca	gctcagcctg	cacagaagcg	240
cagaagcaaa	gccagggcag	aacatgctaa	ccttacagct	cagcctgcac	agaagcacag	300
a						301

<210> 283

<211> 301

<212> DNA

<213> Homo sapien

<400> 283

atctgtatac	ggcagacaaa	ctttatarag	tgtagagagg	tgagcgaaag	gatgcaaaag	60
cactttgagg	gctttataat	aatatgctgc	ttgaaaaaaa	aaatgtgtag	ttgatactca	120
gtgcatctcc	agacatagta	aggggttgct	ctgaccaatc	aggtgatcat	tttttctatc	180
acttcccagg	ttttatgcaa	aaattttggt	aaattctata	atggtgatat	gcatctttta	240
ggaaacatat	acatttttta	aaatctatct	tatgtaagaa	ctgacagacg	aatttgcttt	300
g						301

<210> 284

<211> 301

<212> DNA

<213> Homo sapien

<400> 284

cagggtacaaa	acgctattaa	gtggccttaga	atttgaacat	ttgtggctctt	tatttactttt	60
gcttcgtgtg	tgggcaaagc	aacatcttcc	ctaaatatat	attaccaaga	aaagcaagaa	120
gcagattagg	tttttgacaa	aacaaacagc	ccaaaagggg	gctgacctgg	agcagagcat	180

## 93

```

ggtgagagggc aaggcatgag agggcaagtt tgttgtggac agatctgtgc ctactttatt 240
actggagtaa aagaaaacaa agttcattga tgtcgaagga tatatacagt gttagaaatt 300
a                                                    301

```

```

<210> 285
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 285
acatcaccat gatcggatcc cccacccatt atacgttgta tgtttacata aatactcttc 60
aatgatcatt agtgttttta aaaaaatact gaaaactcct tctgcatccc aatctctaac 120
caggaaagca aatgctatct acagacctgc aagccctccc tcaaacnaaa ctatttctgg 180
attaaatatg tctgacttct tttgaggtca cactgactag caaatgctat ttacgatctg 240
caaaagctgt ttgaagagtc aaagccccc tgtgaacacg atttctggac cctgtaacag 300
t                                                    301

```

```

<210> 286
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 286
taccactgca ttccagcctg ggtgacagag tgagactccg tctccaaaaa aaactttgct 60
tgtatattat ttttgccctta cagtggatca ttctagtagg aaaggacagt aagatttttt 120
atcaaaatgt gtcatgccag taagagatgt tatattcttt tctcatctct tccccacca 180
aaaataagct accatatagc ttataagtct caaatttttg ccttttacta aaatgtgatt 240
gtttctgttc atttgtgtatg ctccatcacc tatattaggc aaattccatt ttttcccttg 300
t                                                    301

```

```

<210> 287
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 287
tacagatctg ggaactaaat attaaaaatg agtgtggctg gatatatgga gaatgttggg 60
cccagaagga acgtagagat cagatattac aacagctttg ttttgagggg tagaaatatg 120
aaatgatttg gttatgaacg cacagttagg gcagcagggc cagaatcctg accctctgcc 180
ccgtggttat ctccctccca gcttggtctg ctcagtgtat cacagtatto cattttgttt 240
gttgcatgtc ttgtgaagcc atcaagattt tctcgtctgt tttcctctca ttggtaatgc 300
t                                                    301

```

```

<210> 288
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 288
gtacacctaa ctgcaaggac agctgaggaa tgtaatgggc agccgctttt aaagaagtag 60
agtcaatagg aagacaaatt ccagttccag ctcatctggg gtatctgcaa agctgcaaaa 120
gatctttaaa gacaatttca agagaatatt tccttaaagt tggcaatttg gagatcatac 180
aaaagcatct gcttttgtga tttaatttag ctcatctggc cactggaaga atccaaacag 240

```

94

tctgccttaa ttttggatga atgcatgatg gaaattcaat aatttagaaa gttaaaaaaa 300  
a 301

<210> 289  
<211> 301  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(301)  
<223> n = A,T,C or G

<400> 289  
ggtacactgt ttccatgtta tgtttctaca cattgctacc tcagtgtctcc tggaaaactta 60  
gcttttgatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatctttg 120  
ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa 180  
cgttctataa atgaatgtgc tgaagcaaag tgcccatggt ggcggcgaan aagagaaaga 240  
tgtgttttgt tttggactct ctgtggtccc ttccaatgct gtgggtttcc aaccagnnga 300  
a 301

<210> 290  
<211> 301  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(301)  
<223> n = A,T,C or G

<400> 290  
acactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac 60  
tgactgatct gttcatttct ctcacagctc ttaccccca aagcttttcc accctaagtg 120  
ttctgacctc cttttctaata cacagtaggg atagaggcag anccacctac aatgaacatg 180  
gagttctatc aagaggcaga aacagcacag aatoccagtt ttaccattcg ctagcagtgc 240  
tgcttgaac aaaaacattt ctccatgtct cattttcttc atgcctcaag taacagtggag 300  
a 301

<210> 291  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 291  
cagggtaccaa tttcttctat cctagaaaca tttoatttta tgttgttgaa acataacaac 60  
tatatcagct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc 120  
tttactcttt tgtttatagg tgaatcacia aatgtatttt tatgtattct gtagttcaat 180  
agccatggct gtttacttca ttaattttat ttagcataaa gacattatga aaaggcctaa 240  
acatgagctt cacttcccc ctaactaatt agcatctggt atttcttaac cgtaatgcct 300  
a 301

<210> 292  
<211> 301  
<212> DNA  
<213> Homo sapien

<220>



95

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(301)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 292

```

accttttagt agtaatgtct .aataataaat aagaaatcaa ttttataagg tccatatagc      60
tgtattaaat aattttttaag tttaaaagat aaaataccat catttttaa atgttggtattc      120
aaaaccaaag natataaccg aaaggaaaaa cagatgagac ataaaatgat ttgcnagatg      180
ggaaatatag tasttyatga atgttnatta aattccagtt ataatagtgg ctacacactc      240
tcactacaca cacagacccc acagtcctat atgccacaaa cacatttcca taacttgaaa      300
a                                                                                   301

```

&lt;210&gt; 293

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 293

```

ggtaccaagt gctgggtgcc gctgttacc tgttctcact gaaaagtctg gctaattgctc      60
ttgtgtagtc acttctgatt ctgacaatca atcaatcaat ggcctagagc actgactgtt      120
aacacaaaag tcactagcaa agtagcaaca gctttaagtc taaatacaaaa gctgttctgt      180
gtgagaattt tttaaaaggc tacttgtata ataacccttg tcatttttaa tgtacctcgg      240
ccgcgaccac gctaagccga attctgcaga tatccatcac actggcggcc gctcgagcat      300
g                                                                                   301

```

&lt;210&gt; 294

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(301)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 294

```

tgaccataaa caatatacac tagctatctt ttttaactgtc catcattagc accaatgaag      60
attcaataaaa attaccttta ttcacacatc tcaaaacaat tctgcaaatt cttagtgaag      120
tttaactata gtcacaganc ttaaataatc acattgtttt ctatgtctac tgaaaataag      180
ttcactactt ttctgggata ttctttacaa aatcttatta aaattcctgg tattatcacc      240
cccaattata cagtagcaca accaccttat gtagttttta catgatagct ctgtagaggt      300
t                                                                                   301

```

&lt;210&gt; 295

&lt;211&gt; 305

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 295

```

gtactctttc tctcccctcc tctgaattta attctttcaa cttgcaattt gcaaggatta      60
cacatttcac tgtgatgtat attgtgttgc aaaaaaaaaa gtgtctttgt ttaaaattac      120
ttggtttgtg aatccatctt gctttttccc cattggaact agtcattaac ccatctctga      180
actggtagaa aaacrtctga agagctagtc tatcagcatc tgacagggtga attggatggt      240
tctcagaacc atttcaccca gacagcctgt ttctatcctg ttttaataaat tagtttgggt      300
tctct                                                                                   305

```

&lt;210&gt; 296

&lt;211&gt; 301

<212> DNA  
<213> Homo sapien

<400> 296  
aggtactatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tgtgctatct 60  
cacctagtag taaactaaaa ataaactgaa actttatgga atctgaagtt attttccttg 120  
attaaataga attaataaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac 180  
tttgaaaaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt 240  
tgtcattact ataaatttta aaatctgtta ataagatggc ctataggagg gaaaaagggg 300  
c 301

<210> 297  
<211> 300  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(300)  
<223> n = A,T,C or G

<400> 297  
actgagtttt aactggacgc caagcaggca aggctggaag gttttgctct ctttgtgcta 60  
aaggtttttga aaaccttgaa ggagaatcat ttgacaaga agtacttaag agtctagaga 120  
acaaagangt gaaccagctg aaagctctcg ggggaanctt acatgtgttg ttaggcctgt 180  
tccatcattg ggagtgcact ggccatccct caaaatttgt ctgggctggc ctgagtggtc 240  
accgcacctc ggccgcgacc acgctaagcc gaattctgca gatatccatc acactggcgg 300

<210> 298  
<211> 301  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(301)  
<223> n = A,T,C or G

<400> 298  
tatggggttt gtcacccaaa agctgatgct gagaaaggcc tccctggggc ccctcccgcg 60  
ggcatctgag agacctggtg ttccagtgtt tctggaaatg ggtcccagtg ccgccggctg 120  
tgaagctctc agatcaatca cgggaaggcg ctggcggtgg tggccacctg gaaccaccct 180  
gtcctgtctg tttacatttc actaycagg tttctctggg cattacnatt tgttccccta 240  
caacagtgc ctgtgcattc tgctgtggcc tgctgtgtct gcagggtggc ctcagcgagg 300  
t 301

<210> 299  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 299  
gttttgagac ggagtttcac tcttgttgcc cagactggac tgcaatggca gggctctctgc 60  
tcaactgcacc ctctgcctcc cagggttogag caattctcct gcctcagcct ccaggttagc 120  
tgggattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg 180  
gagtttcgcc atgttgcca gctggtctca aactcctgac ctcaagcgac ctgcctgcct 240  
cggcctccca aagtgcctga attataggca tgagtcaaca cgcccagcct aaagatatatt 300  
t 301

<210> 300  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 300  
 attcagtttt atttgctgcc ccagtatctg taaccaggag tgccacaaaa tcttgccaga 60  
 tatgtccac acccactggg aaaggctccc acctggctac ttctctatc agctgggtca 120  
 gctgcattcc acaaggttct cagcctaata agtttacta cctgccagtc tcaaaactta 180  
 gtaaagcaag accatgacat tccccacgg aaatcagagt ttgcccacc gtcttggtac 240  
 tataaagcct gcctctaaca gtccttgctt cttcacacca atcccagcgc catcccccat 300  
 g 301

<210> 301  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 301  
 ttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtctgc 60  
 agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagttggg 120  
 gggaactcac aaagaccctc agagctgaga caccacaaac agtgggagct cacaagacc 180  
 ctgagagctg agacaccac aacagtggga gtcacaaaag accctcagag ctgagacacc 240  
 cacaacagca cctcgttcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt 300  
 t 301

<210> 302  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 302  
 aggtacacat ttagcttggt gtaaagtact caaaaactg attttaaaat caagttaatg 60  
 tgaattttga aaattactac ttaatoctaa ttcacaataa caatggcatt aaggtttgac 120  
 ttgagttggt tcttagtatt atttatggta aataggctct taccacttgc aaataactgg 180  
 ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca 240  
 caggatttga gatgctaagg ccccagagat cgtttgatcc aaccctctta ttttcagagg 300  
 g 301

<210> 303  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 303  
 aggtaccaac tgtggaaata ggtagaggat ctttttttct ttccatatca actaagttgt 60  
 atattgtttt ttgacagttt aacacatctt cttctgtcag agattctttc acaatagcac 120  
 tggctaattg aactaccgct tgcattgtaa aaatgggtgt ttgtgaaatg atcataggcc 180  
 agtaacgggt atgtttttct aactgatctt ttgctcgttc caaagggacc tcaagacttc 240  
 catcgatttt atatctgggg tctagaaaag gagttaatct gttttccctc ataaattcac 300  
 c 301

<210> 304  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

98

<400> 304  
 acatggatgt tattttgcag actgtcaacc tgaatttgta tttgcttgac attgcctaatt 60  
 tattagtttcc agtttgcagct taccactttt ttgtctgcaa catgcaraas agacagtgcc 120  
 ctttttagtg tatcatatca ggaatcatct cacattgggtt tgtgccatta ctggtgcagt 180  
 gactttcagc cacttgggta aggtggagtt ggccatatgt ctccactgca aaattactga 240  
 ttttcctttt gtaattaata agtgtgtgtg tgaagattct ttgagatgag gtatatatct 300  
 c 301

<210> 305  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 305  
 gangtacagc gtggtcaagg taacaagaag aaaaaaatgt gagtggcatc ctgggatgag 60  
 cagggggaca gacctggaca gacacgttgt catttgctgc tgtgggtagg aaaatgggcg 120  
 taaaggagga gaaacagata caaaatctcc aactcagtat taaggatttc tcatgcctag 180  
 aatattggta gaaacaagaa tacattcata tggcaaataa ctaaccatgg tggaacaaaa 240  
 ttctgggatt taagttggat accaangaaa ttgtattaaa agagctgttc atggaataag 300  
 a 301

<210> 306  
 <211> 8  
 <212> PRT  
 <213> Homo sapien

<400> 306  
 Val Leu Gly Trp Val Ala Glu Leu  
 1 5

<210> 307  
 <211> 637  
 <212> DNA  
 <213> Homo sapien

<400> 307  
 acaggggratg aagggaaggg gagaggatga ggaagccccc ctggggattt ggtttggtcc 60  
 ttgtgatcag gtggtctatg gggcttatcc ctacaaagaa gaatccagaa ataggggcac 120  
 attgaggaat gatacttgag cccaaagagc attcaatcat tgttttattt gccttmtttt 180  
 cacaccattg gtgaggagg gattaccacc ctggggttat gaagatggtt gaacacccca 240  
 cacatagcac cggagatatg agatcaacag tttcttagcc atagagattc acagcccaga 300  
 gcaggaggac gcttgcacac catgcaggat gacatggggg atgcgctcgg gattggtgtg 360  
 aagaagcaag gactgttaga ggcaggcttt atagtaacaa gacggtgggg caaactctga 420  
 tttcogtggg ggaatgtcat ggtcttgctt tactaagttt tgagactggc aggtagtga 480  
 actcattagg ctgagaacct tgtggaatgc acttgaccca sctgatagag gaagtagcca 540  
 ggtgggagcc tttccagtg ggtgtgggac atatctggca agattttgtg gcactcctgg 600  
 ttacagatac tggggcagca aataaaaactg aatctttg 637

<210> 308  
 <211> 647  
 <212> DNA  
 <213> Homo sapien

99

<220>  
 <221> misc\_feature  
 <222> (1)...(647)  
 <223> n = A,T,C or G

<400> 308  
 acgattttca ttatcatgta aatcgggtca ctcaaggggc caaccacagc tgggagccac 60  
 tgctcagggg aaggttcata tgggactttc tactgcccac ggttctatac aggatataaa 120  
 gnggcctcac agtatagatc tggtagcaaa gaagaagaaa caaacactga tctctttctg 180  
 ccacccctct gacccttttg aactcctctg acccttttaga acaagcctac ctaatatctg 240  
 ctagagaaaa gaccaacaac ggcctcaaag gatctcttac catgaaggtc tcagctaatt 300  
 cttgggctaag atgtgggttc cacattaggt tctgaatatg gggggaaggg tcaatttgct 360  
 cattttgtgt gtggataaag tcaggatgcc caggggccag agcagggggc tgcttgcttt 420  
 gggaacaatg gctgagcata taaccatagg ttatggggaa caaaacaaca tcaaagtcac 480  
 tgtatcaatt gccatgaaga cttgagggac ctgaatctac cgattcatct taaggcagca 540  
 ggaccagttt gagtggcaac aatgcagcag cagaatcaat ggaaacaaca gaatgattgc 600  
 aatgtccttt tttttctcct gcttctgact tgataaaagg ggaccgt 647

<210> 309  
 <211> 460  
 <212> DNA  
 <213> Homo sapien

<400> 309  
 actttatagt ttaggctgga cattggaaaa aaaaaaagc cagaacaaca tgtgatagat 60  
 aatatgattg gctgcacact tccagactga tgaatgatga acgtgatgga ctattgtatg 120  
 gagcacatct tcagcaagag ggggaaatac tcatcatttt tggccagcag ttgtttgatc 180  
 accaaacatc atgccagaat actcagcaaa ccttcttagc tcttgagaag tcaaagtccg 240  
 ggggaattta ttcctggcaa ttttaattgg actccttatg tgagagcagc ggctaccacg 300  
 ctgggggtgt ggagcgaacc cgtcactagt ggacatgcag tggcagagct cctggtaacc 360  
 acctagagga atacacaggc acatgtgtga tgccaagcgt gacacctgta gcactcaaat 420  
 ttgtcttgtt tttgtctttc ggtgtgtaag attcttaagt 460

<210> 310  
 <211> 539  
 <212> DNA  
 <213> Homo sapien

<400> 310  
 acgggactta tcaaataaag ataggaaaag aagaaaactc aaatattata ggcagaaatg 60  
 ctaaaggttt taaaatatgt caggattgga agaaggcatg gataaagaac aaagttcagt 120  
 taggaaagag aaacacagaa ggaagagaca caataaaagt cattatgtat tctgtgagaa 180  
 gtcagacagt aagattttgt ggaaatgggt tggtttgttg tatggtatgt attttagcaa 240  
 taatctttat ggcagagaaa gctaaaatcc tttagcttgc gtgaatgatc acttgctgaa 300  
 ttctcaagg taggcatgat gaaggagggt ttagaggaga cacagacaca atgaactgac 360  
 ctagatagaa agccttagta tactcagcta ggaatagtga ttctgagggc aactgtgac 420  
 atgattatgt cattacatgt atggtagtga tggggatgat aggaaggag aacttatggc 480  
 atattttcac cccacaaaaa gtcagttaaa tattgggaca ctaaccatcc aggtcaaga 539

<210> 311  
 <211> 526  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(526)  
 <223> n = A,T,C or G

100

```

<400> 311
caaatttgag ccaatgacat agaatttttac aaatcaagaa gcttattctg gggccatttc      60
ttttgacgtt ttctctaaac tactaaagag gcattaatga tccataaatt atattatcta      120
catttacagc atttaaaatg tgttcagcat gaaatattag ctacagggga agctaaataa      180
attaaacatg gaataaagat ttgtccttaa atataatcta caagaagact ttgatatttg      240
tttttcacaa gtgaagcatt cttataaagt gtcataacct ttttggggaa actatgggaa      300
aaaatgggga aactctgaag ggttttaagt atcttacctg aagctacaga ctccataacc      360
tctctttaca gggagctcct gcagccccta cagaaatgag tggctgagat tcttgattgc      420
acagcaagag cttctcatct aaaccctttc cttttttagt atctgtgtat caagtataaa      480
agttctataa actgtagtnt acttatttta atccccaaag cacagt                    526

```

```

<210> 312
<211> 500
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(500)
<223> n = A,T,C or G

```

```

<400> 312
cctctctctc cccaccccct gactctagag aactgggttt tctcccagta ctccagcaat      60
tcattttctga aagcagttga gccactttat tccaaagtac actgcagatg ttcaaactct      120
ccattttctct ttcccttcca cctgccagtt ttgctgactc tcaacttgtc atgagtgtaa      180
gcattaagga cattatgctt cttegattct gaagacaggc cctgctcatg gatgactctg      240
gcttcttagg aaaatatttt tcttccaaaa tcagtaggaa atctaaactt atcccctctt      300
tgcagatgtc tagcagcttc agacatttgg ttaagaacct atgggaaaaa aaaaaatcct      360
tgctaattgtg gtttctcttg taaaccanga ttcttatttg nctggtatag aatatcagct      420
ctgaacgtgt ggtaaagatt tttgtgtttg aatataggag aaatcagttt gctgaaaagt      480
tagtcttaat tatctatttg

```

```

<210> 313
<211> 718
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

```

```

<400> 313
ggagatttgt gtggttttgca gccgagggag accaggaaga tctgcatggt gggaaggacc      60
tgatgataca gaggtgagaa ataagaaagg ctgctgactt taccatctga ggccacacat      120
ctgctgaaat ggagataatt aacatcacta gaaacagcaa gatgacaata taatgtctaa      180
gtagtgacat gtttttgcac atttccagcc ctttttaaata tccacacaca caggaagcac      240
aaaaggaagc acagagatcc ctggggagaaa tgcccggccg ccatcttggg tcatcgatga      300
gctcgcctct gtgcctgntc ccgcttgtga gggaaggaca ttagaaaatg aattgatgtg      360
ttcctttaaag gatggcagga aaacagatcc tgttgtggat atttatttga acgggattac      420
agatttgaaa tgaagtcaca aagtgagcat taccaatgag aggaaaacag acgagaaaat      480
cttgatgggt cacaagacat gcaacaaaca aaatggaata ctgtgatgac acgagcagcc      540
aactggggag gagataccac ggggcagagg tcaggattct ggccctgctg cctaactgtg      600
cgttatacca atcatttcta tttctaccct caaacaagct gtngaataac tgacttacgg      660
ttctnttggc ccacattttc atnatocacc cntcnttttt aannttantic caaantgt      718

```

```

<210> 314

```

## 101

<211> 358  
 <212> DNA  
 <213> Homo sapien

<400> 314  
 gtttattttac attacagaaa aaacatcaag acaatgtata ctattttcaaa tatatccata 60  
 cataatcaaa tatagctgta gtacatgttt tcattgggtgt agattaccac aaatgcaagg 120  
 caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg tgtagtccaa 180  
 gctctcggta gtccagccac tgtgaaacat gctcccttta gattaacctc gtggacgctc 240  
 ttgttgattt gctgaactgt agtgccctgt attttgcttc tgtctgtgaa ttctgttgct 300  
 tctggggcat ttccttggtga tgcagaggac caccacacag atgacagcaa tctgaatt 358

<210> 315  
 <211> 341  
 <212> DNA  
 <213> Homo sapien

<400> 315  
 taccacctcc ccgctggcac tgatgagccg catcaccatg gtcaccagca ccatgaaggc 60  
 atagggtgatg atgaggacat ggaatgggcc cccaaggatg gtctgtccaa agaagcgagt 120  
 gacccccatt ctgaagatgt ctggaacctc taccagcagg atgatgatag cccaatgac 180  
 agtcaccagc tccccgacca gccggatata gtccttaggg gtcattgtagg cttcctgaag 240  
 tagcttctgc tgtaagaggg tgttgtcccg ggggctcgtg cggttattgg tcctgggctt 300  
 gagggggcgg tagatgcagc acatggtgaa gcagatgatg t 341

<210> 316  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 316  
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 cattcaggga gctctggttg caatattagt t 151

<210> 317  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 317  
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 atcttcatat atctctggcc ttaaccctgg ctccctgaggc tgcggccagc agatcccagg 120  
 ccagggctct gttcttgcca cacctgcttg a 151

<210> 318  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 318  
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 tgggggctgt ttatcaggca gtgataaaca t 151

<210> 319  
 <211> 151  
 <212> DNA

102

&lt;213&gt; Homo sapien

&lt;400&gt; 319

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aactagtggga tccagagcta taggtacagt gtgatctcag ctttgcaaac acattttcta      60
catagatagt actaggtatt aatagatatg taaagaaaga aatcacacca ttaataatgg      120
taagattggg tttatgtgat ttagtggggt a                                     151

```

&lt;210&gt; 320

&lt;211&gt; 150

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 320

```

aactagtggga tccactagtc cagtgtgggtg gaattccatt gtgttgggggt tctagatcgc      60
gagcggctgc cctttttttt tttttttttg ggggggaatt tttttttttt aatagttatt      120
gagtgttcta cagcttacag taaataccat                                     150

```

&lt;210&gt; 321

&lt;211&gt; 151

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 321

```

agcaactttg tttttcatcc aggttatttt aggcttagga tttcctctca cactgcagtt      60
tagggtggca ttgtaaccag ctatggcata ggtgttaacc aaaggctgag taaacatggg      120
tgccctctgag aaatcaaagt cttcatacac t                                     151

```

&lt;210&gt; 322

&lt;211&gt; 151

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(151)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 322

```

atccagcatc ttctcctggt tcttgccttc ctttttcttc ttcttasatt ctgcttgagg      60
tttgggcttg gtcagtttgc cacagggtt ggagatgggt acagtcttct ggcattcggc      120
attgtgcagg gctcgcttca nacttccagt t                                     151

```

&lt;210&gt; 323

&lt;211&gt; 151

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(151)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 323

```

tgaggacttg tktttctttt ctttattttt aatcctctta ckttgtaaata atattgccta      60
nagactcant tactaccag tttgtgggtt twtgggagaa atgtaactgg acagttagct      120
gttcaatyaa aaagacactt ancccatgtg g                                     151

```

&lt;210&gt; 324



103

<211> 461  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(461)  
 <223> n = A,T,C or G

<400> 324  
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 agagttaacta cgaatcccat cttggttcca gctatatcac tgacagcatg gtagaagact 180  
 gcgaacctca cttctagact ttacggtgg gacgaaacgg gttcagaaac tgccaggggc 240  
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 cacacaaatg caatagtgtg tcaactgcatt tttacctgaa ccaaagctaa acccggtgtt 360  
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 aaaaacgcac aagagcccct gccctgccct agctgangca c 461

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 <211> 400  
 <212> DNA  
 <213> Homo sapien

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 tctataaatg aatgtgctga agcaaagtgc ccatgggtggc ggcaagaag agaaagatgt 240  
 gttttgtttt ggactctctg tgggtcccttc caatgctgtg ggtttccaac caggggaagg 300  
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 ctggccaagc aggctgggtt gcaagaatga aatgaatgat 400

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 <211> 1215  
 <212> DNA  
 <213> Homo sapien

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 ccagatggtg gaggccagcc tctccgtaag gcacccagag tacaacagac ccttgctcgc 240  
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 ttaactctgg ggaactggaa cccatgaaat tgacccccaa atacatctcg cggaaggaa 720  
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104

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 aaaaaaaaaa aaaaa 1215

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 <211> 220  
 <212> PRT  
 <213> Homo sapien

<400> 327  
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 Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val  
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 Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly  
 35 40 45  
 Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu  
 50 55 60  
 Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala  
 65 70 75 80  
 Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp  
 85 90 95  
 Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn  
 100 105 110  
 Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro  
 115 120 125  
 Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu Val Cys  
 130 135 140  
 Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly  
 145 150 155 160  
 Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro  
 165 170 175  
 Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala  
 180 185 190  
 Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys  
 195 200 205  
 Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
 210 215 220

<210> 328  
 <211> 234  
 <212> DNA  
 <213> Homo sapien

<400> 328  
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 atccgcagtg ggtgctgtca gccacacact gtttccagaa ctctacacc atcgggctgg 180  
 gcctgcacag tcttgaggcc gaccaagagc cagggagcca gatggtggag gcc 234

<210> 329  
 <211> 77  
 <212> PRT  
 <213> Homo sapien

<400> 329  
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 1 5 10 15  
 Pro His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu

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Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val	Leu	Ser	Ala	Thr
		35					40					45			
His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu	Gly	Leu	His	Ser	Leu
	50					55					60				
Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	Val	Glu	Ala			
65					70					75					

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<210> 330
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<212> DNA
<213> Homo sapien
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<400> 330  
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gctgcagcca 70

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<210> 331
<211> 22
<212> PRT
<213> Homo sapien
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<400> 331  
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<210> 332
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<213> Homo sapien
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gaaaattcta	caatgcagcg	ctggcctact	gtcacagcaa	gctagccaac	atcctcttca	660
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 <211> 3030  
 <212> DNA  
 <213> Homo sapien

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cctgtgocca	ggcagccacc	ctggccgcgt	accccgcgga	gactcccacg	gccgggggag	480
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<210> 334  
 <211> 2417  
 <212> DNA  
 <213> Homo sapien

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108

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<210> 335  
 <211> 2984  
 <212> DNA  
 <213> Homo sapien

<400> 335

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109

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<210> 336
<211> 147
<212> PRT
<213> Homo sapien

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<400> 336
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20      25      30
Pro Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln
35      40      45
Val Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala
50      55      60
Pro Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln
65      70      75      80
Val Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln
85      90      95
Leu Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala
100      105      110
Leu Lys Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn
115      120      125
Ser Tyr Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro
130      135      140
Ala Phe Trp
145

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<210> 337
<211> 9
<212> PRT
<213> Homo sapien

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<400> 337
Ala Leu Thr Gly Phe Thr Phe Ser Ala
1      5

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<210> 338
<211> 9
<212> PRT
<213> Homo sapien

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<400> 338
Leu Leu Ala Asn Asp Leu Met Leu Ile
1      5

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<210> 339
<211> 318
<212> PRT
<213> Homo sapien

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110

<400> 339  
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 20 25 30  
 Cys Thr Ser Thr Val Gln Leu Pro Gly Lys Val Val Val Val Thr Gly  
 35 40 45  
 Ala Asn Thr Gly Ile Gly Lys Glu Thr Ala Lys Glu Leu Ala Gln Arg  
 50 55 60  
 Gly Ala Arg Val Tyr Leu Ala Cys Arg Asp Val Glu Lys Gly Glu Leu  
 65 70 75 80  
 Val Ala Lys Glu Ile Gln Thr Thr Thr Gly Asn Gln Gln Val Leu Val  
 85 90 95  
 Arg Lys Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Lys  
 100 105 110  
 Gly Phe Leu Ala Glu Glu Lys His Leu His Val Leu Ile Asn Asn Ala  
 115 120 125  
 Gly Val Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Met  
 130 135 140  
 His Ile Gly Val Asn His Leu Gly His Phe Leu Leu Thr His Leu Leu  
 145 150 155 160  
 Leu Glu Lys Leu Lys Glu Ser Ala Pro Ser Arg Ile Val Asn Val Ser  
 165 170 175  
 Ser Leu Ala His His Leu Gly Arg Ile His Phe His Asn Leu Gln Gly  
 180 185 190  
 Glu Lys Phe Tyr Asn Ala Gly Leu Ala Tyr Cys His Ser Lys Leu Ala  
 195 200 205  
 Asn Ile Leu Phe Thr Gln Glu Leu Ala Arg Arg Leu Lys Gly Ser Gly  
 210 215 220  
 Val Thr Thr Tyr Ser Val His Pro Gly Thr Val Gln Ser Glu Leu Val  
 225 230 235 240  
 Arg His Ser Ser Phe Met Arg Trp Met Trp Trp Leu Phe Ser Phe Phe  
 245 250 255  
 Ile Lys Thr Pro Gln Gln Gly Ala Gln Thr Ser Leu His Cys Ala Leu  
 260 265 270  
 Thr Glu Gly Leu Glu Ile Leu Ser Gly Asn His Phe Ser Asp Cys His  
 275 280 285  
 Val Ala Trp Val Ser Ala Gln Ala Arg Asn Glu Thr Ile Ala Arg Arg  
 290 295 300  
 Leu Trp Asp Val Ser Cys Asp Leu Leu Gly Leu Pro Ile Asp  
 305 310 315

<210> 340  
 <211> 483  
 <212> DNA  
 <213> Homo sapien

<400> 340  
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 gctccaaacg tgacatcact gatgctcttc tcgggggtgc tgatggcccg cttggtcacg 360  
 tgctcaatct cgccattcga ctcttgctcc aaactgtatg aagacacctg actgcacgtt 420  
 ttttctgggc ttccagaatt taaagtgaag ggcagcactc ctaagctccg actccgatgc 480  
 ctg 483



111

<210> 341  
 <211> 344  
 <212> DNA  
 <213> Homo sapien

<400> 341  
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 gctgccttac aagtattaaa tattttactt ctttccataa agagtagctc aaaatatgca 180  
 attaatTTaa taattttctga tgatggTTTT atctgcagta atatgtatat catctattag 240  
 aatttactta atgaaaaact gaagagaaca aaatttgtaa ccactagcac ttaagtactc 300  
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<210> 342  
 <211> 592  
 <212> DNA  
 <213> Homo sapien

<400> 342  
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 cctggcaggt aaaccaatgc caagagagtg atggaaacca ttggcaagac tttgttgatg 180  
 accaggattg gaattttata aaaatattgt tgatgggaag ttgctaaagg gtgaattact 240  
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 tcagcatggg ctgtttgggtg caaatgcaaa agcacaggtc tttttagcat gctggctctc 420  
 cccgtgtcct tatgcaaata atcgtcttct tctaaatttc tcctaggctt cattttccaa 480  
 agttcttctt ggtttgtgat gtcttttctg ctttccatta attctataaa atagtatggc 540  
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<210> 343  
 <211> 382  
 <212> DNA  
 <213> Homo sapien

<400> 343  
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 ctgactgcc aaggggctca gaacccagc aatcccttcc tttcactacc ttcttttttg 300  
 ggggtagttg gaagggactg aaattgtggg gggaaggtag gaggcacatc aataaagagg 360  
 aaaccaccaa gctgaaaaaa aa 382

<210> 344  
 <211> 536  
 <212> DNA  
 <213> Homo sapien

<400> 344  
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 gtttaggggg atgccaagga taaggccagc tcagttatat gaagagaagc agaacaaaca 180  
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112

caactaacct gccactaata gttatgtcat cctctttatt aatcatcatc ctagccctaa 480  
gtctggccta tgagtgacta caaaaaggat tagactgagc cgaataacaa aaaaaa 536

<210> 345  
<211> 251  
<212> DNA  
<213> Homo sapien

<400> 345  
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gcgtgggcca ggaaatcaca tcctacactg cccaggagcc agacacattt atggaacaga 180  
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gtgccatttc c 251

<210> 346  
<211> 282  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(282)  
<223> n = A,T,C or G

<400> 346  
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aggagacta tacctggctc ttgccctaag tgagaggtct tccctccgc accaaaaaat 180  
agaaaggctt tctatttcac tggcccaggt agggggaagg agagtaactt tgagtctgtg 240  
ggtctcattt cccaaggtgc cttcaatgct catnaaaacc aa 282

<210> 347  
<211> 201  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(201)  
<223> n = A,T,C or G

<400> 347  
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tctgagactg actggaccca cccagaccca gggcaaagat acatggttacc atatcatctt 180  
tataaagaat ttttttttgt c 201

<210> 348  
<211> 251  
<212> DNA  
<213> Homo sapien

<400> 348  
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aggagacact cccagcatgg aggagggttt atcttttcat cctaggtcag gtctacaatg 180  
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113

gccctgcctc c 251

<210> 349  
 <211> 251  
 <212> DNA  
 <213> Homo sapien

<400> 349  
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 cagaagggtc tgaactctac gtgttaccag agaacataat gcaattcatg cattccactt 180  
 agcaattttg taaaatacca gaaacagacc ccaagagtct ttcaagatga ggaaaattca 240  
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<210> 350  
 <211> 908  
 <212> DNA  
 <213> Homo sapien

<400> 350  
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 ccacatacct tgtccggaac attacaatgg cttctgcatg catgggaagt gtgagcattc 780  
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 aatcgag 908

<210> 351  
 <211> 472  
 <212> DNA  
 <213> Homo sapien

<400> 351  
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 cattaacttg attttaaaat cagwtttgyg agtcatttac cacaagctaa atgtgtacac 180  
 tatgataaaa acaaccattg tattcctgtt ttctctaaaca gtccctaattt ctaacactgt 240  
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 gatctgtcca caacaaactt gccctctcat gcottgcctc tcaccatgct ctgctccagg 360  
 tcagccccct tttggcctgt ttgttttgtc aaaaacctaa tctgcttctt gcttttcttg 420  
 gtaatatata tttaggggaag atgttgcttt gccacacac gaagcaaagt aa 472

<210> 352  
 <211> 251  
 <212> DNA  
 <213> Homo sapien

<400> 352

114

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caggctgcgt	tccgtcctta	cgatgaagac	cacgatgcag	tttccaaaca	ttgccactac	180
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<210> 353  
 <211> 436  
 <212> DNA  
 <213> Homo sapien

<400> 353						
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gtatccaaaa	gcaaaacagc	agatatacaa	aattaaagag	acagaagata	gacattaaca	180
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tcatgtctga	raaggctctc	ccttcaatgg	ggatgacaaa	ctccaaatgc	cacacaaatg	360
ttaacagaat	actagattca	cactggaacg	ggggtaaaga	agaaattatt	ttctataaaa	420
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<210> 354  
 <211> 854  
 <212> DNA  
 <213> Homo sapien

<400> 354						
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atcaggggacc	accctttggg	ttgatatttt	gcttaatctg	catcttttga	gtaagatcat	180
ctggcagtag	aagctgttct	ccagggtacat	ttctctagct	catgtacaaa	aacatcctga	240
aggactttgt	caggtgcctt	gctaaaagcc	agatgcgttc	ggcacttcct	tggtctgagg	300
ttaattgcac	acctacaggc	actgggctca	tgctttcaag	tattttgtcc	tcactttagg	360
gtgagtgaag	gatccccatt	ataggagcac	ttgggagaga	tcataataaaa	gctgactcct	420
gagtacatgc	agtaatgggg	tagatgtgtg	tggtgtgtct	tcattcctgc	aagggtgctt	480
gttagggagt	gtttccagga	ggaacaagtc	tgaaaccaat	catgaaataa	atggtaggtg	540
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caatatggaa	ggctctaatt	tgcccatatt	tgaaataata	attcagcttt	ttgtaataca	660
aaataacaaa	ggattgagaa	tcatgtgtgc	taatgtataa	aagaccagc	aaacataaat	720
atatcaactg	cataaatgta	aaatgcatgt	gacccaagaa	ggccccaag	tggcagacaa	780
cattgtaccc	attttccctt	ccaaaatgtg	agcggcgggc	ctgctgcttt	caaggctgtc	840
acacgggatg	tcag					854

<210> 355  
 <211> 676  
 <212> DNA  
 <213> Homo sapien

<400> 355						
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caggctcaag	ctgatctttc	tggaatgtca	ccaaccaagg	gcctatatatt	atcaaaaagcc	120
atccacaagt	catacctgga	tgtcagcgaa	gagggcacgg	aggcagcagc	agccactggg	180
gacagcatcg	ctgtaaaaag	cctaccaatg	agagctcagt	tcaaggcgaa	ccacccttc	240
ctgtttcttta	taaggcacac	tcataccaac	acgatcctat	tctgtggcaa	gcttgccctc	300
ccctaatacag	atgggggttg	gtaagggtca	gagttgcaga	tgagggtgcag	agacaatcct	360
gtgactttcc	cacggccaaa	aagctgttca	cacctcacgc	acctctgtgc	ctcagtttgc	420
tcactctgcaa	aataggctca	ggatttcttc	caaccatttc	atgagttgtg	aagctaaggc	480
tttgttaatc	atggaaaaag	gtagacttat	gcagaaagcc	tttctggctt	tcttatctgt	540

## 115

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gggtgtctcat ttgagtgtctg tccagtgaca tgatcaagtc aatgagtaaa attttaaggg      600
attagattttt cttgacttgt atgtatctgt gagatcttga ataagtgacc tgacatctct      660
gcttaaagaa aaccag                                     676

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<210> 356
<211> 574
<212> DNA
<213> Homo sapien

```

```

<400> 356
tttttttttt ttttttcagga aaacattctc ttactttatt tgcattctcag caaagggttct      60
catgtggcac ctgactggca tcaaaccaaa gttcgtaggc caacaaagat gggccactca      120
caagcttccc attttagat ctcagtgcct atgagtatct gacacctgtt cctctcttca      180
gtctcttagg gaggttataa tctgtctcag gtgtgctaag agtgccagcc caaggkggtc      240
aaaagtccac aaaactgcag tctttgctgg gatagtaagc caagcagtgc ctggacagca      300
gagttctttt cttgggcaac agataaccag acaggactct aatcgtgctc ttattcaaca      360
ttcttctgtc tctgcctaga ctggaataaa aagccaatct ctctcgtggc acaggggaagg      420
agatacaagc tcgtttacat gtgatagatc taacaaaggc atctaccgaa gtctgggtctg      480
gatagacggc acagggagct cttaggtcag cgctgctggt tggaggacat tcctgagtcoc      540
agcttttgca cctttgtgca acagtacttt ccca                                     574

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<210> 357
<211> 393
<212> DNA
<213> Homo sapien

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<400> 357
tttttttttt tttttttttt tttttttttt tacagaatat aratgcttta tcaactgkact      60
taatatggkg kcttgtttcac tatacttaaa aatgcaccac tcataaatat ttaattcagc      120
aagccacaac caaracttga ttttatcaac aaaaaccctt aaatataaac ggsaaaaaag      180
atagatataa ttattccagt ttttttaaaa cttaaaarat attccattgc cgaattaara      240
araarataag tgttatatgg aaagaagggc attcaagcac actaaaraaa cctgaggkaa      300
gcataatctg tacaaaatta aactgtcctt tttggcattt taacaaattt gcaacgktct      360
tttttttctt tttctgtttt tttttttttt tac                                     393

```

```

<210> 358
<211> 630
<212> DNA
<213> Homo sapien

```

```

<400> 358
acagggtaaa caggaggatc cttgctctca oggagcttac attctagcag gaggacaata      60
ttaatgttta taggaaaatg atgagtttat gacaaaggaa gtagatagtg ttttacaaga      120
gcatagagta gggaagctaa tccagcacag ggaggtcaca gagacatccc taagggaagtg      180
gagtttaaac tgagagaagc aagtgtctaa actgaaggat gtgttgaaga agaagggaga      240
gtagaacaat ttgggcagag ggaaccttat agaccctaag gtgggaagggt tcaaagaact      300
gaaagagagc tagaacagct ggagccgttc tccggtgtaa agaggagtca aagagataag      360
attaaagatg tgaagattaa gatcttggtg gcattcaggg attggcactt ctacaagaaa      420
tcaactgaagg gagtaatgtg acattacttt tcaacttcagg atggccattc taactccagg      480
gggtagactg gactaggtaa gactggaggg aggtagacct cttctaaggc ctgogatagt      540
gaaagacaaa aataagtggg gaaattcagg ggatagttaa aatcagtagg acttaatgag      600
caagccagag gttcctccac aacaaccagt                                     630

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<210> 359
<211> 620
<212> DNA
<213> Homo sapien

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116

&lt;400&gt; 359

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taattaaaaa	atgctactaa	tatagaaaat	ttataatcag	aaaaataaat	attcagggag	120
ctcaccagaa	gaataaagt	ctctgccagt	tattaaagga	ttactgctgg	tgaattaaat	180
atggcattcc	ccaagggaaa	tagagagatt	cttctggatt	atgttcaata	tttatttcac	240
aggattaact	gttttaggaa	cagatataaa	gcttcgccac	ggaagagatg	gacaaagcac	300
aaagacaaca	tgatacctta	ggaagcaaca	ctaccctttc	aggcataaaa	tttggagaaa	360
tgcaacatta	tgcttcatga	ataatatgta	gaaagaaggt	ctgatgaaaa	tgacatcctt	420
aatgtaagat	aactttataa	gaattctggg	tcaaataaaa	ttctttgaag	aaaacatcca	480
aatgtcattg	acttatcaaa	tactatcttg	gcataataacc	tatgaaggca	aaactaaaca	540
aacaaaaagc	tcacaccaaa	caaaaccatc	aacttatttt	gtattctata	acatacgaga	600
ctgtaaagat	gtgacagtgt					620

&lt;210&gt; 360

&lt;211&gt; 431

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 360

aaaaaaaaa	agccagaaca	acatgtgata	gataaatatga	ttggctgcac	acttccagac	60
tgatgaatga	tgaacgtgat	ggactattgt	atggagcaca	tcttcagcaa	gagggggaaa	120
tactcatcat	ttttggccag	cagttgtttg	atcaccaaac	atcatgccag	aatactcagc	180
aaacotttctt	agctcttgag	aagtcaaagt	ccgggggaat	ttattcctgg	caattttaat	240
tggtactcctt	atgtgagagc	agcggctacc	cagctggggg	ggtggagcga	accggtcact	300
agtggacatg	cagtggcaga	gctcctggta	accacctaga	ggaatacaca	ggcacatgtg	360
tgatgccaaag	cgtgacacct	gtagcactca	aatttgtctt	gtttttgtct	ttcgggtgtgt	420
agattcttag	t					431

&lt;210&gt; 361

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 361

acactgattt	ccgatcaaaa	gaatcatcat	ctttaccttg	acttttcagg	gaattactga	60
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ttgggtcctc	tggtctcttg	ccaagtttcc	cagccactcg	agggagaaat	atcggggagg	180
ttgacttctt	ccggggcttt	cccaggggct	tcaccgtgag	ccctgcggcc	ctcagggtctg	240
caatcctgga	ttcaatgtct	gaaacctogc	tctctgcctg	ctggacttct	gaggccgtca	300
ctgccactct	gtcctccagc	tctgacagct	cctcatctgt	ggtcctgttg	t	351

&lt;210&gt; 362

&lt;211&gt; 463

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 362

acttcatcag	gccataatgg	gtgcctcccg	tgagaatcca	agcacctttg	gactgcgcga	60
tgtagatgag	ccggctgaag	atcttgcgca	tgcgcggtct	cagggcgaag	ttcttggcgc	120
ccccggctac	agaaatgacc	aggttgggtg	ttttcagggt	ccagtgtctg	gtcagcagct	180
cgtaaaggat	ttccgcgtcc	gtgtcgcagg	acagacgtat	atacttcctt	ttcttcccca	240
gtgtctcaaa	ctgaatatcc	ccaaaggcgt	cggtaggaaa	ttccttgggt	tgtttcttgt	300
agttccattt	ctcacttttg	ttgatctggg	tgcttcccat	gtgctggctc	tgggcatagc	360
cacacttgca	cacattctcc	ctgataagca	cgatgggtgtg	gacaggaagg	aaggatttca	420
ttgagcctgc	ttatggaaac	tggtattgtt	agcttaaata	gac		463

&lt;210&gt; 363

&lt;211&gt; 653

117

<212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(653)  
 <223> n = A,T,C or G

<400> 363  
 acccccgagt ncctgnctgg catactgnga acgaccaacg acacacccaa gctcggcctc 60  
 ctcttgngga ttctgggtga catcttcatg aatggcaacc gtgccagwga ggctgtcctc 120  
 tgggaggcac tacgcaagat gggactgcgt cctgggggtga gacatcctct ccttggagat 180  
 ctaacgaaac ttctcaccta tgagttgtaa agcagaaata cctgnactac agacgagtgc 240  
 ccaacagcaa cccccggaa gtatgagttc ctctrgggcc tccgttccta ccatgagasc 300  
 tagcaagatg naagtgttga gantcattgc agaggttcag aaaagagacc cntcgtgact 360  
 ggtctgcaca gttcatggag gctgcagatg aggccttgga tgctctggat gctgctgcag 420  
 ctgaggccga agcccgggct gaagcaagaa cccgcatggg aattggagat gaggctgtgt 480  
 ntgggcccctg gagctgggat gacattgagt ttgagctgct gacctgggat gagggaaggag 540  
 attttgagaga tccntgggtcc agaattccat ttaccttctg ggccagatac caccagaatg 600  
 cccgctccag attccctcag acctttgccg gtcccattat tggtcstggt ggt 653

<210> 364  
 <211> 401  
 <212> DNA  
 <213> Homo sapien

<400> 364  
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 acaaagccaa tgaatgactc taaaaacaat atttacattt aatggtttgt agacaataaa 120  
 aaaacaagggt ggatagatct agaattgtaa cattttaaga aaaccatagc atttgacaga 180  
 tgagaaagct caattataga tgcaaagtta taactaaact actatagtag taaagaaata 240  
 catttcacac ccttcataata aattcactat cttggcttga ggcactccat aaaatgtatc 300  
 acgtgcatag taaatcttta tatttgctat ggcgttgcac tagaggactt ggactgcaac 360  
 aagtggatgc gcggaaaatg aaatcttctt caatagccca g 401

<210> 365  
 <211> 356  
 <212> DNA  
 <213> Homo sapien

<400> 365  
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 taccagagca tcaagtctct gcagcaggtc attcttgggt aaagaaatga cttccacaaa 180  
 ctctccatcc cctggcctttg gcttcggcct tgcgttttcg gcatcatctc cgttaaatgg 240  
 gactgtcacg atgtgtatag tacagtttga caagcctggg tccatacaga ccgctggaga 300  
 acattcggca atgtcccctt ttagccaggt ttcttcttcg agctcccga gagcag 356

<210> 366  
 <211> 1851  
 <212> DNA  
 <213> Homo sapien

<400> 366  
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 cttcogtgtt cttcattctt cttcaatagc cataaatctt ctgactctgg ctggctgttt 120  
 tcacttctct taagcctttg tgactcttcc totgatgtca gctttaagtc ttgttctgga 180  
 ttgctgtttt cagaagagat ttttaacatc tgtttttctt tgtagtcaga aagtaactgg 240

118

caaattacat	gatgatgact	agaaacagca	tactctctgg	ccgtctttcc	agatcttgag	300
aagatacatc	aacattttgc	tcaagtagag	ggctgactat	acttgctgat	ccacaacata	360
cagcaagtat	gagagcagtt	cttccatata	tatccagcgc	atttaaattc	gcttttttct	420
tgattaaaaa	tttcaccact	tgctgttttt	gctcatgtat	accaagtagc	agtgggtgtga	480
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atttatcttc	attgtagaca	gcatagtgta	gagtggtatt	tccatactca	tctggaatat	600
ttggatcagt	gccatgttcc	agcaacatta	acgcacattc	atcttcctgg	cattgtacgg	660
cctttgtcag	agctgtcctc	tttttgttgt	caaggacatt	aagttgacat	cgtctgtcca	720
gcacgagttt	tactacttct	gaattcccat	tggcagaggc	cagatgtaga	gcagtcctct	780
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gtccatccag	ggaggaagaa	atgcaggaaa	tgaagatgc	atgcacgatg	gtatactcct	1140
cagccatcaa	acttctggac	agcaggtcac	ttccagcaag	gtggagaaag	ctgtccaccc	1200
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tcacataaac	agaattaaaa	gcaaagtcac	ataagcatct	caacagacac	agaaaaggca	1680
tttgacaaaa	tccagcatcc	ttgtatttat	tgttgagatt	ctcagaggaa	atgcttctaa	1740
cttttcccca	tttagtatta	tgttggttgt	gggcttgtca	taggtgggtt	ttattacttt	1800
aagggtatgtc	ccttctatgc	ctgttttgtc	gagggtttta	attctcgtgc	c	1851

<210> 367  
 <211> 668  
 <212> DNA  
 <213> Homo sapien

<400> 367						
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accrtataag	agcagtgctt	tggccattaa	tttatctttc	atttrtagaca	gcrtagtgya	180
gagtggatatt	tccatactca	tctggaatat	ttggatcagt	gccatgttcc	agcaacatta	240
acgcacattc	atcttcctgg	cattgtacgg	cctgtcagta	ttagacccaa	aaacaaatta	300
catatcttag	gaattcaaaa	taacattcca	cagctttcac	caactagtta	tatttaaagg	360
agaaaactca	tttttatgcc	atgtattgaa	atcaaaccce	cctcatgctg	atatagttag	420
ctactgcata	cctttatcag	agctgtcctc	tttttgttgt	caaggacatt	aagttgacat	480
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gcagtcttat	gagagtgaga	agacttttta	ggaaattgta	gtgcactagc	tacagccata	600
gcaatgattc	atgtaactgc	aaacactgaa	tagcctgcta	ttactctgcc	ttcaaaaaaa	660
aaaaaaaa						668

<210> 368  
 <211> 1512  
 <212> DNA  
 <213> Homo sapien

<400> 368						
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119

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gaagtagtaa	aactcstgct	ggacagacga	tgtcaactta	atgtccttga	caacaaaaag	840
aggacagctc	tgayaaaggc	cgtacaatgc	caggaagatg	aatgtgcgtt	aatggtgctg	900
gaacatggca	ctgatccaaa	tattccagat	gagtatggaa	ataccactct	rcactaygct	960
rtctayaatg	aagataaatt	aatggccaaa	gcactgctct	tatayggtgc	tgatatcgaa	1020
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taaaaaacag	taatagatac	gaggtgatgc	gcctgtcagt	ggcaaggttt	aagatatattc	1500
tgatctcgtg	cc					1512

&lt;210&gt; 369

&lt;211&gt; 1853

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 369

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tgggctgggc	trgaatcccc	tgctgggggt	ggcaggtttt	ggctgggatt	gacttttytc	120
ttcaaacaga	ttggaaaccc	ggagttacct	gctagttggt	gaaactgggt	ggtagacgcg	180
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tgggtgctgcc	gttgcttccc	ctgctgcagg	gagagcggca	agagcaacgt	gggcacttct	360
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cactgcttcc	cctgctgcag	ggggagtggc	aagagcaacg	tgggcgcttc	tggagaccac	480
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gccttcatgg	akcccaggta	ccacgtccrt	ggagaagatc	tggacaagct	ccacagagct	660
gcctgggtggg	gtaaagtccc	cagaaaggat	ctcatcgta	tgctcaggga	cackgaygtg	720
aacaagargg	acaagcaaaa	gaggactgct	ctacatctgg	cctctgccaa	tgggaattca	780
gaagtagtaa	aactcstgct	ggacagacga	tgtcaactta	atgtccttga	caacaaaaag	840
aggacagctc	tgayaaaggc	cgtacaatgc	caggaagatg	aatgtgcgtt	aatggtgctg	900
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120

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 <211> 2184  
 <212> DNA  
 <213> Homo sapien

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 <211> 1855  
 <212> DNA  
 <213> Homo sapien

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121

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 <212> DNA  
 <213> Homo sapien

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<212> DNA  
 <213> Homo sapien

<400> 373

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 <212> DNA  
 <213> Homo sapien

<400> 374

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123

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 <212> PRT  
 <213> Homo sapien

<400> 376															
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124

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Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
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His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
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Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
      130      135      140
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
      145      150      155      160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
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Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
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Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
      195      200      205
Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
      210      215      220
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
      225      230      235      240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
      245      250      255
Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
      260      265      270
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
      275      280      285
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
      290      295      300
Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
      305      310      315      320
Ser Met Leu Phe Leu Val Ile Ile Met
      325

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<210> 377
<211> 148
<212> PRT
<213> Homo sapien

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<220>
<221> VARIANT
<222> (1)...(148)
<223> Xaa = Any Amino Acid

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<400> 377
Met Thr Xaa Pro Ser Trp Ser Pro Gly Thr Thr Ser Val Glu Lys Ile
  1      5      10      15
Trp Thr Ser Ser Thr Glu Leu Pro Trp Trp Gly Lys Val Pro Arg Lys
      20      25      30
Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys
      35      40      45
Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu

```

125

50		55		60
Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp				
65		70		75
Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Gln Glu Asp				80
	85		90	95
Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro				
	100		105	110
Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp				
	115		120	125
Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser				
	130		135	140
Lys Asn Lys Val				
145				

<210> 378  
 <211> 1719  
 <212> PRT  
 <213> Homo sapien

<400> 378
Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
1 5 10 15
Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
20 25 30
Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
35 40 45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
50 55 60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
65 70 75 80
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
85 90 95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
100 105 110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
115 120 125
Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
130 135 140
Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
145 150 155 160
Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
165 170 175
Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
180 185 190
Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
195 200 205
Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
210 215 220
Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
225 230 235 240
Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
245 250 255
Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
260 265 270
Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
275 280 285
Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
290 295 300

Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310					315					320
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345					350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile
		355					360					365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Asn	Val	Ser	Arg	Thr	Arg	Asn	Lys
	370					375					380				
Pro	Arg	Thr	His	Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser
385					390					395					400
Ser	Val	Lys	Lys	Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys
				405					410					415	
Cys	Arg	Cys	Phe	Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly
			420					425					430		
Thr	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys
		435					440					445			
Met	Gly	Lys	Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly
	450					455					460				
Lys	Ser	Asn	Val	Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys
465					470					475					480
Thr	Leu	Arg	Asn	Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys
				485					490					495	
Cys	Arg	Gly	Ser	Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp
			500					505					510		
Asp	Ser	Ala	Phe	Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu
		515					520					525			
Asp	Lys	Leu	His	Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp
	530					535					540				
Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln
545					550					555					560
Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val
				565					570					575	
Val	Lys	Leu	Leu	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn
			580					585					590		
Lys	Lys	Arg	Thr	Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu
		595					600					605			
Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp
	610					615					620				
Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys
625					630					635					640
Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys
			645						650				655		
Asn	Lys	His	Gly	Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys
			660					665					670		
Gln	Gln	Val	Val	Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala
		675					680					685			
Leu	Asp	Arg	Tyr	Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly
	690					695					700				
Ser	Ala	Ser	Ile	Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser
705					710					715					720
Ser	Gln	Asp	Leu	Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser
			725						730					735	
His	His	His	Val	Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln
			740					745					750		
Met	Leu	Lys	Ile	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys
		755					760					765			



Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser
770						775					780				
Gln	Pro	Glu	Lys	Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp
785					790					795					800
Arg	Glu	Val	Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly	
				805					810					815	
Leu	Leu	Glu	Asn	Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn
			820					825					830		
Gly	Leu	Ile	Pro	Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe
		835					840					845			
Pro	Asp	Asn	Glu	Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser
	850						855				860				
Asp	Tyr	Lys	Glu	Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn
865					870					875					880
Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu
				885					890					895	
Glu	Gly	Ser	Glu	Asn	Gly	Gln	Pro	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile
			900					905					910		
Glu	Glu	Met	Lys	Lys	His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn
		915					920					925			
Leu	Thr	Asn	Gly	Ala	Thr	Ala	Gly	Asn	Gly	Asp	Asp	Gly	Leu	Ile	Pro
	930					935					940				
Pro	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu
945					950					955					960
Asn	Glu	Glu	Tyr	His	Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe
				965						970					975
Cys	Glu	Glu	Gln	Asn	Thr	Gly	Ile	Leu	His	Asp	Glu	Ile	Leu	Ile	His
			980					985					990		
Glu	Glu	Lys	Gln	Ile	Glu	Val	Val	Glu	Lys	Met	Asn	Ser	Glu	Leu	Ser
		995					1000					1005			
Leu	Ser	Cys	Lys	Lys	Glu	Lys	Asp	Ile	Leu	His	Glu	Asn	Ser	Thr	Leu
	1010					1015					1020				
Arg	Glu	Glu	Ile	Ala	Met	Leu	Arg	Leu	Glu	Leu	Asp	Thr	Met	Lys	His
1025					1030						1035				1040
Gln	Ser	Gln	Leu	Pro	Arg	Thr	His	Met	Val	Val	Glu	Val	Asp	Ser	Met
				1045						1050					1055
Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys	Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met
			1060					1065					1070		
Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe	Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys
		1075					1080					1085			
Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr
	1090					1095						1100			
Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys
1105					1110					1115					1120
Arg	Gly	S													

## 128

Asn Ser Glu Val Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn  
 1235 1240 1245  
 Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys  
 1250 1255 1260  
 Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro  
 1265 1270 1275 1280  
 Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr  
 1285 1290 1295  
 Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp  
 1300 1305 1310  
 Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Val  
 1315 1320 1325  
 His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala  
 1330 1335 1340  
 Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala  
 1345 1350 1355 1360  
 Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn  
 1365 1370 1375  
 Ile Asp Val Ser Ser Gln Asp Leu Ser Ser Gly Gln Thr Ala Arg Glu Tyr  
 1380 1385 1390  
 Ala Val Ser Ser His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr  
 1395 1400 1405  
 Lys Glu Lys Gln Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu  
 1410 1415 1420  
 Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly  
 1425 1430 1435 1440  
 Ser Glu Asn Ser Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn  
 1445 1450 1455  
 Lys Asp Gly Asp Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser  
 1460 1465 1470  
 Asn Asn Val Gly Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly  
 1475 1480 1485  
 Asn Gly Asp Asn Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu  
 1490 1495 1500  
 Asn Gln Gln Phe Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys  
 1505 1510 1515 1520  
 Glu Leu Val Ser Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser  
 1525 1530 1535  
 Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu  
 1540 1545 1550  
 Ser Gln Arg Leu Glu Gly Ser Glu Asn Gly Gln Pro Glu Lys Arg Ser  
 1555 1560 1565  
 Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Leu Glu Asn Phe  
 1570 1575 1580  
 Met Ala Ile Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe  
 1585 1590 1595 1600  
 Pro Glu Asn Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly  
 1605 1610 1615  
 Leu Ile Pro Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro  
 1620 1625 1630  
 Asp Thr Glu Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln  
 1635 1640 1645  
 Lys Gln Phe Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile  
 1650 1655 1660  
 Leu Ile His Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser  
 1665 1670 1675 1680  
 Glu Leu Ser Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn  
 1685 1690 1695

Ser Thr Leu Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr  
1700 1705 1710  
Met Lys His Gln Ser Gln Leu  
1715

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<210> 379
<211> 656
<212> PRT
<213> Homo sapien
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	<400> 379														
Met 1	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys
				5					10					15	
Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
			20					25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40					45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
	65				70					75				80	
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
		115					120					125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
	145				150					155				160	
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180					185					190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
		195					200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
	210					215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
	225				230					235				240	
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
			245						250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260					265					270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
		275				280						285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
	290					295					300				
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
	305				310					315				320	
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
			325						330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345					350		

130

370		375		380
Glu Glu Ser Gln Arg Phe	Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys			
385		390		400
Met Ser Gln Glu Pro Glu	Ile Asn Lys Asp Gly Asp Arg Glu Val Glu			
	405		410	415
Glu Glu Met Lys Lys His	Glu Ser Asn Asn Val Gly Leu Leu Glu Asn			
	420		425	430
Leu Thr Asn Gly Val Thr	Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro			
	435		440	445
Gln Arg Lys Ser Arg Thr	Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu			
	450		455	460
Ser Glu Glu Tyr His Arg	Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu			
465		470		480
Lys Gln Met Pro Lys Tyr	Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp			
	485		490	495
Leu Lys Leu Thr Ser Glu	Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu			
	500		505	510
Asn Gly Gln Pro Glu Leu	Glu Asn Phe Met Ala Ile Glu Glu Met Lys			
	515		520	525
Lys His Gly Ser Thr His	Val Gly Phe Pro Glu Asn Leu Thr Asn Gly			
	530		535	540
Ala Thr Ala Gly Asn Gly	Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser			
545		550		560
Arg Thr Pro Glu Ser Gln	Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr			
	565		570	575
His Ser Asp Glu Gln Asn	Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln			
	580		585	590
Asn Thr Gly Ile Leu His	Asp Glu Ile Leu Ile His Glu Glu Lys Gln			
	595		600	605
Ile Glu Val Val Glu Lys	Met Asn Ser Glu Leu Ser Leu Ser Cys Lys			
	610		615	620
Lys Glu Lys Asp Ile Leu	His Glu Asn Ser Thr Leu Arg Glu Glu Ile			
625		630		640
Ala Met Leu Arg Leu Glu	Leu Asp Thr Met Lys His Gln Ser Gln Leu			
	645		650	655

<210> 380  
 <211> 671  
 <212> PRT  
 <213> Homo sapien

<400> 380
Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
1 5 10 15
Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
20 25 30
Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
35 40 45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
50 55 60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
65 70 75 80
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
85 90 95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
100 105 110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
115 120 125

## 131

Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
130						135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180					185					190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
		195					200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
210						215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235					240
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
				245					250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260					265					270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
		275					280					285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
	290					295					300				
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310					315					320
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345					350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile
	355						360					365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu
	370					375					380				
Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys
385					390					395					400
Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu
				405					410					415	
Glu	Glu	Met	Lys	His	Glu	Ser	Asn	Asn	Val	Gly	Leu	Leu	Glu	Glu	Asn
		420						425					430		
Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro
		435					440					445			
Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu
	450					455					460				
Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser	Asp	Tyr	Lys	Glu
465					470					475					480
Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp
				485					490					495	
Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu
		500						505					510		
Asn	Gly	Gln	Pro	Glu	Lys	Arg	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp
		515						520				525			
Gly	Asp	Arg	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile	Glu	Glu	Met	Lys	Lys
	530					535					540				
His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn	Leu	Thr	Asn	Gly	Ala
545					550					555					560
Thr	Ala	Gly	Asn	Gly	Asp	Asp	Gly	Leu	Ile	Pro	Pro	Arg	Lys	Ser	Arg
				565					570					575	
Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu	Asn	Glu	Glu	Tyr	His
			580					585						590	

132

Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln Asn  
 595 600 605  
 Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln Ile  
 610 615 620  
 Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys Lys  
 625 630 635 640  
 Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala  
 645 650 655  
 Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu  
 660 665 670

<210> 381  
 <211> 251  
 <212> DNA  
 <213> Homo sapien

<400> 381  
 ggagaagcgt ctgctggggc aggaaggggt ttccctgccc tctcacctgt ccctcaccaa 60  
 ggtaacatgc ttcccctaag ggtatcccaa cccaggggcc tcaccatgac ctctgagggg 120  
 ccaatatccc aggagaagca ttggggaggt gggggcaggt gaaggacca ggactcacac 180  
 atcctgggcc tccaaggcag aggagagggt cctcaagaag gtcaggagga aaatccgtaa 240  
 caagcagtca g 251

<210> 382  
 <211> 3279  
 <212> DNA  
 <213> Homo sapiens

<400> 382  
 cttcctgcag ccccatgct ggtgaggggc acgggcagga acagtggacc caacatggaa 60  
 atgctggagg gtgtcaggaa gtgatcgggc tctggggcag ggaggagggg tggggagtgt 120  
 cactgggagg ggacatcctg cagaaggtag gagttagcaa acaccgctg caggggaggg 180  
 gagagccctg cggcacctgg gggagcagag ggagcagcac ctgcccaggc ctgggaggag 240  
 gggcctggag ggcgtgagga ggagcgagg ggctgcatgg ctggagttag ggatcagggg 300  
 cagggcgcgga gatggcctca cacaggggaag agagggcccc tcctgcaggg cctcacctgg 360  
 gccacaggag gacactgctt ttctcttgag gagttaggag ctgtggatgg tgctggacag 420  
 aagaaggaca gggcctggct caggtgtcca gaggtgtctg ctggcttccc ttggggatca 480  
 gactgcaggg agggagggcg gcagggttgt ggggggagtg acgatgagga tgacctgggg 540  
 gtggtctcag gccttgcccc tgcttggggc ctcaaccagc ctccctcaca gtctcctggc 600  
 cctcagtctc tcccctccac tccatcctcc atctggcctc agtgggtcat tctgatcact 660  
 gaactgacca taccagccc tgcccacggc cctccatggc tccccaatgc cctggagagg 720  
 ggacatctag tcagagagta gtccatgaaga ggtggcctct gcgatgtgcc tgtgggggca 780  
 gcacocctga gatggtccc gccctcatcc tgctgacctg tctgcaggga ctgtcctcct 840  
 ggacattgcc ccttgtgcag gagctggacc ctgaagtccc ctccccatag gccaagactg 900  
 gagccttggt cctctgttg gactccctgc ccatattctt gtgggagtgg gttctggaga 960  
 catttctgtc tgttcctgag agctgggaat tgctctcagt catctgcctg cgcggttctg 1020  
 agagatggag ttgcctaggc agttattggg gccaatcttt ctactgtgt ctctcctcct 1080  
 ttacccttag ggtgattctg ggggtccact tgtotgtaat ggtgtgcttc aaggatatcac 1140  
 atcatggggc cctgagccat gtgccctgcc tgaagagcct gctgtgtaca ccaaggtggg 1200  
 gcattaccgg aagtggatca aggacacat cgcagccaac ccctgagtgc ccctgtocca 1260  
 cccctacctc tagtaaatat aagtccacct cacgttcttg catcacttgg cctttctgga 1320  
 tgctggacac ctgaagcttg gaactcacct ggccgaagct cgagcctcct gagtccact 1380  
 gacctgtgct ttctgggtgt gagtccaggg ctgctaggaa aaggaaatgg cagacacagg 1440  
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 tgtttctggg gtgcagagat gggggcaggt gggccaccac tggaagagtg gacagtga 1620  
 caaggtggac actctctaca gatcactgag gataagctgg agccacaatg catgaggcac 1680  
 acacacagca aggttgacgc tgtaaacata gccacgctg tcctgggggc actgggaagc 1740

```

ctagataagg ccgtgagcag aaagaagggg aggatcctcc tatgttgttg aaggaggggac 1800
taggggggaga aactgaaagc tgattaatta caggagggttt gttcagggtcc cccaaaccac 1860
cgtcagattt gatgatttcc tagcaggact tacagaaata aagagctatc atgctgtggt 1920
ttattatggt ttgttacatt gataggatac atactgaaat cagcaaaca aacagatgta 1980
tagattagag tgtggagaaa acagaggaaa acttgcagtt acgaagactg gcaacttggc 2040
tttactaagt tttcagactg gcaggaagtc aaacctatta ggctgaggac cttgtggagt 2100
gtagctgac cagctgatag aggaactagc caggtggggg ctttccctt tggatggggg 2160
gcatatocga agttatttct ctccaagtgg agacttacgg acagcatata attctccctg 2220
caaggatgta tgataatatg tacaaaagtaa ttccaactga ggaagctcac ctgatcotta 2280
gtgtccaggg tttttactgg gggctctgtag gacgagtatg gactacttga ataattgacc 2340
tgaagtcttc agacctgagg ttccctagag ttcaaacaga tacagcatgg tccagagtcc 2400
cagatgtaca aaaacaggga ttcatcaca atcccatctt tagcatgaag ggtctggcat 2460
ggcccaaggc cccaagtata tcaaggcact tgggcagaac atgccaagga atcaaagtgc 2520
atctcccagg agttattcaa gggtagccc ttacttggg atgtacaggc tttagcagt 2580
gcagggtctgc tgagtcaacc ttttattgta caggggatga gggaaaggga gaggatgagg 2640
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atcattgttt tatttgcctt cttttcacac cattggtgag ggagggatta ccaccctggg 2820
gttatgaaga tggttgaaca ccccacacat agcaccggag atatgagatc aacagtttct 2880
tagccataga gattcacagc ccagagcagg aggacgctgc acaccatgca ggatgacatg 2940
ggggatgctgc tcgggatttg tgtgaagaag caaggactgt tagaggcagg ctttatagta 3000
acaagacggg ggggcaaact ctgatttccg tgggggaatg tcatggtctt gctttactaa 3060
gttttgagac tggcaggtag tgaaactcat taggctgaga accttgtgga atgcagctga 3120
cccagctgat agaggaagta gccaggtggg agcctttccc agtgggtgtg ggacatatct 3180
ggcaagattt tgtggcactc ctggttacag atactggggc agcaaataaa actgaatctt 3240
gttttcagac cttaaaaaaa aaaaaaaaaa aaagttttt 3279

```

&lt;210&gt; 383

&lt;211&gt; 154

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 383

```

Met Ala Gly Val Arg Asp Gln Gly Gln Gly Ala Arg Trp Pro His Thr
                    5                      10                      15
Gly Lys Arg Gly Pro Leu Leu Gln Gly Leu Thr Trp Ala Thr Gly Gly
                    20                      25                      30
His Cys Phe Ser Ser Glu Glu Ser Gly Ala Val Asp Gly Ala Gly Gln
                    35                      40                      45
Lys Lys Asp Arg Ala Trp Leu Arg Cys Pro Glu Ala Val Ala Gly Phe
                    50                      55                      60
Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
                    65                      70                      75                      80
Ser Asp Asp Glu Asp Asp Leu Gly Val Ala Pro Gly Leu Ala Pro Ala
                    85                      90                      95
Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu
                    100                     105                     110
Pro Ser Thr Pro Ser Ser Ile Trp Pro Gln Trp Val Ile Leu Ile Thr
                    115                     120                     125
Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn
                    130                     135                     140
Ala Leu Glu Arg Gly His Leu Val Arg Glu
145                      150

```

&lt;210&gt; 384

&lt;211&gt; 557

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 384

```

ggatcctcta gagcgccgc ctactactac taaattcgcg gccgcgtcga cgaagaagag 60
aaagatgtgt tttgttttgg actctctgtg gtcccttcca atgctgtggg tttccaacca 120
ggggaagggt ccctttttgca ttgccaagtg ccataaccat gagcactact ctaccatggg 180
tctgcctcct ggccaagcag gctggtttgc aagaatgaaa tgaatgattc tacagctagg 240
acttaacctt gaaatggaaa gtcttgcaat ccattttgca ggatccgtct gtgcacatgc 300
ctctgtagag agcagcattc ccagggacct tggaaacagt tggcactgta aggtgcttgc 360
tccccaaagac acatcctaaa aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc 420
ccttccttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaagt 480
tcaattgtga aaatgaatat catgcaaata aattatgcga tttttttttc aaagtaaaaa 540
aaaaaaaaa aaaaaaa 557

```

&lt;210&gt; 385

&lt;211&gt; 337

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 385

```

ttcccagggtg atgtgcgagg gaagacacat ttaactatcct tgatggggct gattccttta 60
gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120
tctcaaagcc atctgctgtc ttcgagtacg gacacatcat cactcctgca ttgttgatca 180
aaacgtggag gtgcttttcc tcagctaaga agcccttagc aaaagctcga atagacttag 240
tatcagacag gtccagtttc cgcaccaaca cctgctggtt ccctgtcgtg gtctggatct 300
ctttggccac caattcccc tttccacat cccggca 337

```

&lt;210&gt; 386

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 386

```

gggcccgtcta ccggcccagg ccccgccctcg cgagtcctcc tccccgggtg cctgcccga 60
gccgcgtcgg ccagaggggt gggcgcgggg ctgcctctac cggctggcgg ctgtaactca 120
gcgaccttgg ccgaaggct ctagcaaggga cccaccgacc ccagccgcgg cggcgggcggc 180
gcggaactttg cccggtgtgt gggcgggagc ggactgcgtg tccgcggacg ggcagcgaag 240
atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300

```

&lt;210&gt; 387

&lt;211&gt; 537

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 387

```

gggcccagtc gggcaccaag ggactctttg caggcttctt tcctcggatc atcaaggctg 60
ccccctcctg tgccatcatg atcagcacct atgagttcgg caaaagcttc ttccagaggc 120
tgaaccagga ccggttctg ggcggctgaa aggggcaagg aggcaaggac cccgtctctc 180
ccacggatgg ggagagggca ggaggagacc cagccaagtg ctttttctc agcactgagg 240
gagggggctt gtttcccttc cctcccggcg acaagctcca gggcagggtg gtccctctgg 300
gcggccacag acttcctcag acacaacttc ttctgctgc tccagtcgtg gggatcatca 360
cttaccaccc cccaagttc aagaccaaata cttccagctg ccccttctg gtttccctgt 420
gtttgctgta gctgggcatg tctccaggaa ccaagaagcc ctgagcctgg tgtagtctcc 480
ctgacccttg ttaattcctt aagtctaaag atgatgaact tcaaaaaaaaa aaaaaaa 537

```

&lt;210&gt; 388

&lt;211&gt; 520

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



135

```

<400> 388
aggataatTTT ttaaaccaat caaatgaaaa aaacaaacaa acaaaaaagg aaatgtcatg 60
tgaggTTaAAA ccagTTTgca ttccctaat gtggaaaaag taagaggact actcagcact 120
gTTTgaagat tgCctcttct acagcttctg agaattgtgt tatttcactt gccaagtGaa 180
ggacccctc cccaacatgc ccagcccac ccctaagcat ggtccctgt caccaggcaa 240
ccaggaaact gctacttgTg gacctacca gagaccagga gggTTtggtt agctcacagg 300
acttccccca cccagaaga ttagcatccc atactagact catactcaac tcaactaggc 360
tcatactcaa ttgatggTta ttagacaatt ccatttcttt ctggttatta taaacagaaa 420
atctttctc ttctcattac cagtaaaggc tcttggtatc tttctgttg aatgatttct 480
atgaacttgT cttattttaa tggTgggtt ttttctggt 520

```

```

<210> 389
<211> 365
<212> DNA
<213> Homo sapiens

```

```

<400> 389
cgTTgcccc gTTtgacaga agGaaaggcg gagcttattc aaagtctaga gggagtggag 60
gagTTaaggc tggatttcag atctgcctgg ttccagccgc agtgtgccct ctgctcccc 120
aacgactttc caaataatct caccagcgcc ttccagctca ggcgtcctag aagcgtcttg 180
aagcctatgg ccagctgtct ttgtgttccc tctcaccgc ctgtcctcac agctgagact 240
cccaggaaac cttcagacta ccttctctg ccttcagcaa ggggcgttg ccacattctc 300
tgagggtcag tggaagaacc tagactccca ttgctagagg tagaaaggg aagggtgctg 360
gggag 365

```

```

<210> 390
<211> 221
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(221)
<223> n = A,T,C or G

```

```

<400> 390
tgCctctcca tCctggcccc gacttctctg tcaggaaagt ggggatggac cccatctgca 60
tacacggnTT ctcatgggtg tggaacatct ctgcttgccg tttcaggaag gcctctggct 120
gctctangag tctgancnga ntcgttgccc cantntgaca naaggaaagg cggagcttat 180
tcaaagtcta gagggagtgg aggagttaag gctggatttc a 221

```

```

<210> 391
<211> 325
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(325)
<223> n = A,T,C or G

```

```

<400> 391
tgGagcaggT cccgaggcct ccctagagcc tggggccgac tctgtgncga tgcangcttt 60
ctctcgccgc cagcctggag ctgctcctgg catctaccaa caatcagncg aggcgagcag 120
tagccagggc actgctgcca acagccagtc onnataccat catgtnaccc ggtgngctct 180
naantTngat ntccanagcc ctacccatcn tagttctgct ctcccaccgg ntaccagccc 240
cactgcccag gaatcctaca gccagtaccc tgtcccgcag tctctaccta ccagtacgat 300

```

gagacctccg gctactacta tgacc

325

<210> 392

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(277)

<223> n = A,T,C or G

<400> 392

```
atattgttta actccttctt ttatatcttt taacattttc atggngaaag gttcacatct 60
agtctcactt nggcnagngn ctctacttgg agtctcttcc ccggcctggn ccagtnagna 120
antaccanga accgncatgn cttaanaacn ncctgggttn tgggttnntc aatgactgca 180
tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggagg 240
ctgaggatac agcgccgcgt cctgtgttgc tggggaa 277
```

<210> 393

<211> 566

<212> DNA

<213> Homo sapiens

<400> 393

```
actagtccag tgtggtggaa ttgcggcccg cgtcgacgga caggtcagct gtctgggtca 60
gtgatctaca ttctgaagtt gtctgaaaat gtcttcatga ttaaattcag cctaaacgtt 120
ttgccgggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcgggca 180
gagaagggtct agtttgtcca tcagcattat catgatatca ggactgggta ctgggttaag 240
gaggggtcta ggagatctgt cccttttaga gacaccttac ttataatgaa gtatttggga 300
gggtgggttt caaaagtaga aatgtcctgt attcogatga tcatcctgta aacattttat 360
catttattaa tcatccctgc ctgtgtctat tattatattc atatctctac gctggaaact 420
ttctgcctca atgtttactg tgcccttgtt ttgtctagtt tgtgttgttg aaaaaaaaaa 480
cattctctgc ctgagtttta atttttgtcc aaagtatttt taatctatac aattaaaagc 540
ttttgcctat caaaaaaaaa aaaaaa 566
```

<210> 394

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(384)

<223> n = A,T,C or G

<400> 394

```
gaacatacat gtcccggcac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60
tgcaaattnng gaccgggcca aggctggact gctggagcgt gtgaaggagc tacaggccna 120
gcaggaggac cgggctttta ggagttttta gctgagtgtc actgtagacc ccaaatacca 180
tcccaagatt atcgggagaa agggggcagt aattacccaa atccggttgg agcatgacgt 240
gaacatccag tttcctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
agggtacgaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
tgagcagatg gtttctgagg acgt 384
```

<210> 395

<211> 399

<212> DNA

137

&lt;213&gt; Homo sapiens

&lt;400&gt; 395

```

ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgac 60
tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
tatcagaggt ttcatcattg cggaaattgt ggagtctaag gaaatcatgg cctctgaagt 180
attcacgtct ttccagtacc ctgagttctc tatagagttg cctaacacag gcagaattgg 240
ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
caagttctct ttggaaagcc tgggcattct ctactacag acctctgacc atgggacggt 360
gcagcctggt gagaccatcc aatcccaa ataatgcac 399

```

&lt;210&gt; 396

&lt;211&gt; 403

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(403)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 396

```

tggagttntc agtgcaaaca agccataaag cttcagtagc aaattactgt ctcacagaaa 60
gacattttca acttctgctc cagctgctga taaaacaaat catgtgttta gcttgactcc 120
agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggagtt gttagtagat 180
actaaaaaaaa gtggatgaat aatctggata tttttcctaa aaagattcct tgaaacacat 240
taggaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
gtttagggga gggagtgagg gataaaagaa ggaaaaaaag aagagtgaga aaacctattt 360
atcaaagcag gtgctatcac tcaatgttag gccctgctct ttt 403

```

&lt;210&gt; 397

&lt;211&gt; 100

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(100)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 397

```

actagtnacg tgtggtggaa ttcgcggccg cgtcgacctc naanccatct ctatagcaaa 60
tccatccccg ctctggttg gtnacagaat gactgacaaa 100

```

&lt;210&gt; 398

&lt;211&gt; 278

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(278)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 398

```

gcgggccgct cgacagcagt tccgccagcg ctgcgccctg ggtggggatg tgctgcacgc 60
ccacctggac atctggaagt cagcggcctg gatgaaagag cggacttcac ctggggcgat 120
tcactactgt gcctcgacca gtgaggagag ctggaccgac agcgaggtgg actcatcatg 180

```

138

ctccgggcag cccatccacc tgtggcagtt cctcaaggag ttgctactca agccccacag 240  
ctatggccgc ttcattangt ggctcaacaa ggagaagg 278

<210> 399

<211> 298

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(298)

<223> n = A,T,C or G

<400> 399

acggaggtgg aggaagcgnc cctgggatcg anaggatggg tcctgncatt gaccncctcn 60  
ggggtgccng catggagcgc atgggcgcgg gcctgggcca cggcatggat cgcgtgggct 120  
ccgagatcga gcgcattggg ctggtcatgg accgcatggg ctccgtggag cgcattgggct 180  
ccggcattga gcgcattggg ccgctggggc tcgaccacat ggccctccanc attgancgca 240  
tgggccagac catggagcgc attggctctg gcgtggagcn catgggtgcc ggcattggg 298

<210> 400

<211> 548

<212> DNA

<213> Homo sapiens

<400> 400

acatcaacta cttcctcatt ttaaggatat gcagttccct tcatcccctt ttctgcctt 60  
gtacatgtac atgtatgaaa tttccttctc ttaccgaact ctctccacac atcacaagggt 120  
caaagaacca cagccttaga aggtaagag ggcaccctat gaaatgaaat ggtgatttct 180  
tgagtctctt ttttccacgt ttaaggggcc atggcaggac ttagagttgc gagttaagac 240  
tgcagagggc tagagaatta tttcatacag gctttgaggc caccatgtc acttatcccg 300  
tataccctct caccatcccc ttgtctactc tgatgcccc aagatgcaac tgggcagcta 360  
gttgccccca taattctggg cctttgttgt ttgttttaat tacttgggca tcccaggaag 420  
ctttccagtg atctcctacc atgggcccc ctctgggat caagcccctc ccaggccctg 480  
tccccagccc ctctgcccc agcccacccg cttgccttgg tgctcagccc tccattggg 540  
agcaggtt 548

<210> 401

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(355)

<223> n = A,T,C or G

<400> 401

actgtttcca tgttatgttt ctacacattg ctacctcagt gctcctggaa acttagcttt 60  
tgatgtctcc aagtagtcca ccttcattta actctttgaa actgtatcat ctttgccaag 120  
taagagtggg ggcctatttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180  
tataaatgaa tgtgctgaag caaagtgcc atggtggcgg cgaagaagan aaagatgtgt 240  
tttgttttgg actctctgtg gtcccttcca atgctgnngg tttccaacca ggggaagggt 300  
cccttttgca ttgccaaagt ccataaccat gagcactact ctaccatggn tctgc 355

<210> 402

<211> 407

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(407)

<223> n = A,T,C or G

<400> 402

```
atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60
tctcacatgc ggtggcatac ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
aaatggaaaa cagaaaaaag caggtgttgc actcctactt tctgacaaaa cagactatgc 180
gaataaagat aaaaaagaga aggacattac aaaggtgggc ctgacctttg ataaatctca 240
ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgctgagg 300
ttgtggagct tctccctgc agagagtccc tgatctccca aaatttggtt gagatgtaag 360
gntgattttg ctgacaactc cttttctgaa gttttactca tttccaa 407
```

<210> 403

<211> 303

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(303)

<223> n = A,T,C or G

<400> 403

```
cagtatttat agccnaactg aaaagctagt agcaggcaag tctcaaatcc aggcacccaaa 60
tcctaagcaa gagcctatggc atggtgaaaa tgcaaaagga gagtctggcc aatctacaaa 120
tagagaacaa gacctactca gtcataaaca aaaaggcaga caccaacatg gatctcatgg 180
gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240
tcttaacaac gaccgaaacc cattattttac ataaacctcc attcggtaac catgttgaaa 300
gga 303
```

<210> 404

<211> 225

<212> DNA

<213> Homo sapiens

<400> 404

```
aagtgttaact tttaaaaatt tagtggattt tgaaaattct tagaggaaag taaaggaaaa 60
attgttaatg cactcattta cctttacatg gtgaaagtgc tctcttgatc ctacaaacag 120
acattttoca ctcggtgttc catagtgtt aagtgtatca gatgtgttgg gcatgtgaat 180
ctccaaagtgc ctgtgtaata aataaagtat ctttatttca ttcat 225
```

<210> 405

<211> 334

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(334)

<223> n = A,T,C or G

<400> 405

```
gagctgttat actgtgagtt ctactaggaa atcatcaaat ctgagggttg tctggaggac 60
ttcaatacac ctccccccat agtgaatcag cttccagggg gtccagtccc tctccttact 120
```

140

```

tcacccccat cccatgccaa aggaagaccc tccctccttg gctcacagcc ttctctaggc 180
ttcccagtg ctcaggaca gagtgggtta tgttttcagc tccatccttg ctgtgagtg 240
ctggtgcggg tgtgcctcca gcttctgctc agtgcttcat ggacagtgtc cagcccatgt 300
cactctccac tctctcanng tggatccac ccct 334

```

```

<210> 406
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

```

```

<400> 406
tttcatacct aatgagggag ttganatnac atnnaaccag gaaatgcatg gatctcaang 60
gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcacttgct 120
acnaaacaca aatttnatgt tgcacccttg ttctacacc tgtgggttat gacaaagaca 180
actgccaaag aatnttcaag aaggaggact gccant 216

```

```

<210> 407
<211> 413
<212> DNA
<213> Homo sapiens

```

```

<400> 407
gctgacttgc tagtatcatc tgcattcatt gaagcacaag aacttcatgc cttgactcat 60
gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120
gtacaacatt gcacccagtg tcagattcta cacctggcca ctcaggaagc aagagttaat 180
cccagaggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240
ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300
tgccagacag gagaaagtct tcccatgtta aaagacattt attatcttgt ttccctgtca 360
tgggagttcc agaaaaagtt aaaacagaca atgggccagg ttctgtagta aag 413

```

```

<210> 408
<211> 183
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(183)
<223> n = A,T,C or G

```

```

<400> 408
ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtcct ttgnnattaa 60
tnccttaacta gttaatcctt aaagggctan ntaatcctta actagtccct ccattgtgag 120
cattatcctt ccagtattcn ccttctnttt tatttactcc ttctgggcta cccatgtact 180
ntt 183

```

```

<210> 409
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

141

&lt;222&gt; (1)...(250)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 409

```

cccacgcatg ataagctctt tattttctgta agtcctgcta ggaaatcatc aaatctgacg 60
gtgggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
gcttcccgat gcccccagga cagcgtgggc tatgtttaca gcgcntcctt gctggggggg 240
ggcctatgc                                     250

```

&lt;210&gt; 410

&lt;211&gt; 306

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(306)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 410

```

ggctgggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttgcaa tcccatttgc aggatccgct tgtgcacatg cctctgtaga gagcagcatt 120
cccagggaacc ttggaaacag ttggcactgt aagggtgctt ctccccaaaga cacatcctaa 180
aagggtgttgt aatggtgaaa accgcttct tctttatttc cccttcttat ttatgtgaac 240
nactgggttgg ctttttttgn atctttttta aactggaaag ttcaattgng aaaatgaata 300
tcntgc                                     306

```

&lt;210&gt; 411

&lt;211&gt; 261

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(261)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 411

```

agagatattt cttaggtnaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaattgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa gngaggcaa a                                     261

```

&lt;210&gt; 412

&lt;211&gt; 241

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(241)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 412

```

gttcaatgtt acctgacatt tctacaacac ccactcacc gatgtattcg ttgccagtg 60
ggaacatacc agcctgaatt tggaaaaaat aattgtgttt cttgccagg aaatactacg 120

```

142

```
actgactttg atgggtccac aaacataacc cagtgtaaaa acagaagatg tggaggggag 180
ctgggagatt tcactgggta cattgaattc ccaaactacc cangcaatta cccagccaac 240
a                                                                 241
```

```
<210> 413
<211> 231
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G
```

```
<400> 413
aactcttaca atccaagtga ctcatctgtg tgcttgaatc ctttccactg tctcatctcc 60
ctcatccaag tttctagtag cttctctttg ttgtgaagga taatcaaact gaacaacaaa 120
aagtttactc tcttcatttg gaacctaaaa actctotttct tcttggttct gagggctcca 180
agaatccttg aatcanttct cagatcattg gggacaccan atcaggaacc t          231
```

```
<210> 414
<211> 234
<212> DNA
<213> Homo sapiens
```

```
<400> 414
actgtccatg aagcactgag cagaagctgg aggcacaacg caccagacac tcacagcaag 60
gatggagctg aaaacataac ccactctgtc ctggaggcac tgggaagcct agagaaggct 120
gtgagccaag gagggagggt cttccttttg catgggatgg ggatgaagta aggagaggga 180
ctggaccccc tggaagctga ttcactatgg ggggaggtgt attgaagtcc tcca      234
```

```
<210> 415
<211> 217
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(217)
<223> n = A,T,C or G
```

```
<400> 415
gcataggatt aagactgagt atctttttcta cattctttta acttttctaag gggcacttct 60
caaaacacag accaggtagc aaatctccac tgctctaagg ntctcaccac cacttttctca 120
cacctagcaa tagtagaatt cagtcctact tctgaggcca gaagaatggt tcagaaaaaat 180
antggattat aaaaaataac aattaagaaa aataatc          217
```

```
<210> 416
<211> 213
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(213)
<223> n = A,T,C or G
```

```
<400> 416
```



143

```

atgcataatnt aaagganact gcctcgcttt tagaagacat ctggncctgct ctctgcatga 60
ggcacagcag taaagctctt tgattcccag aatcaagaac tctccccttc agactattac 120
cgaatgcaag gtggttaatt gaaggccact aattgatgct caaatagaag gatattgact 180
atattggaac agatggagtc tctactacaa aag 213

```

```

<210> 417
<211> 303
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G

```

```

<400> 417
nagtcttcag gccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60
gtgggaaagg ctttactctg agttcaaata ttcaagccca tcagagagtc cacactggag 120
agaagccata caaatgcaat gagtgtggga agagcttcag gagggattcc cattatcaag 180
ttcatctagt ggtccacaca ggagagaaaac cctataaatg tgagatatgt gggaagggct 240
tcantcaaag ttcgtatctt caaatccatc ngaaggncca cagtatanan aaacctttta 300
agt 303

```

```

<210> 418
<211> 328
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

```

```

<400> 418
tttttggcgg tgggtgggca gggacgggac angagtctca ctctgttgcc caggctggag 60
tgcacaggca tgatctcggc tcaactacaac ccctgcctcc catgtccaag cgattcttgt 120
gcctcagcct tccctgtagc tagaattaca ggcacatgcc accacaccca gctagttttt 180
gtatttttag tagagacagg gtttcacat gttggccagg ctgggtctcaa actcctnacc 240
tcagnggtca ggctggtctc aaactcctga cctcaagtga tctgcccacc tcagcctccc 300
aaagtgctan gattacaggc cgtgagcc 328

```

```

<210> 419
<211> 389
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(389)
<223> n = A,T,C or G

```

```

<400> 419
cctcctcaag acggcctgtg gtccgcctcc cggcaaccaa gaagcctgca gtgccatatg 60
acccctgagc catggactgg agcctgaaag gcagcgtaca ccctgctcct gatcttgctg 120
cttgtttcct ctctgtggct ccattcatag cacagttggt gcaactgaggc ttgtgcaggc 180
cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggt gtgccaggca 240
ccggttctcc agccaccaac ctcaactcgt cccgcaaagt gcacatcagt tcttctaccc 300
taaaggtagg accaaagggc atctgctttt ctgaagtcc ctgctctatc agccatcacg 360

```

144

tggcagccac tcnggctgtg tcgacgcgg

389

<210> 420

<211> 408

<212> DNA

<213> Homo sapiens

<400> 420

```
gttcctccta actcctgcc aaacagctc tctcaacat gagagctgca cccctcctcc 60
tgccagggc agcaagcctt agccttggt tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
gtccattga cacttttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcctgaat ggtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgcctatg acaaacctgg caagcccg 408
```

<210> 421

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(352)

<223> n = A,T,C or G

<400> 421

```
gctcaaaaat ctttttactg atnggcatgg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacagggtct tttttgggtc cttcttctcc accacnatat acttgagtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacaggtg tagaaacaag 240
ggtgcaacat gaaatttctg tttcgtagca agtgcattgc tcacaagttg gcangtctgc 300
cactocgagt ttattgggtg tttgtttcct ttgagatcca tgcatttctc gg 352
```

<210> 422

<211> 337

<212> DNA

<213> Homo sapiens

<400> 422

```
atgccaccat gctggcaatg cagcgggcgg tcgaaggcct gcataatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgcccgaaat tgccgatgcc agccgaagcg gtgggtcaagg 120
gcatagcaa ggtgccggcg atcgcgcgcg cgtcaatcct ggccaaggtc agccgtgatc 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcggcggg cataagggct 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacgccg attcaccgac 300
gcttcttccg ccggtacggc tggcctatga aaattat 337
```

<210> 423

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(310)

<223> n = A,T,C or G

<400> 423

145

```

gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
aggagaatga ggccctggcct gggagccctg tgcctactan aagcncatta gattatccat 120
tcactgacag aacagggtctt ttttgggtcc ttcttctcca ccacgatata cttgcagtcc 180
tccttcttga agattctttg gcagttgtct ttgtcataac ccacagggtg anaaacaagg 240
gtgcaacatg aaatttctgt ttcgtagcaa gtgcatgtct cacagttgtc aagtctgccc 300
tccgagttta                                     310

```

```

<210> 424
<211> 370
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(370).
<223> n = A,T,C or G

```

```

<400> 424
gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60
ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120
cactgacaga acagggtctt tttgggtcct tcttctccac cacgatatac ttgcagtcct 180
ccttcttgaa gattcttttg cagttgtctt tgtcataacc cacagggtga gaaacatcct 240
ggttgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300
cacgaagggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360
tccgtcgacg                                     370

```

```

<210> 425
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

```

```

<400> 425
aattgctatn ntttattttg ccactcaaaa taattaccaa aaaaaaaaaa tnttaaattga 60
taacaacnca acatcaaggn aaananaaca ggaatggntg actntgcata aatnggccga 120
anattatcca ttatnttaag ggttgacttc aggnacagc acacagacaa acatgcccag 180
gaggntntca ggaccgctcg atgtnttntg aggagg                                     216

```

```

<210> 426
<211> 596
<212> DNA
<213> Homo sapiens

```

```

<400> 426
cttcagtgga ggataaccct gttgccccgg gccgagggtc tccattaggc tctgattgat 60
tggcagtcag tgatggaagg gtgttctgat cattccgact gcccgaaggg tcgctggcca 120
gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatggtga 180
gctgtccttg tattttgatt aacctaatgg ccttcccagc acgactcgga ttcagctgga 240
gacatcacgg caacttttaa tgaaatgatt tgaagggccca ttaagaggca cttcccgtaa 300
ttaggcagtt catctgcact gataacttct tggcagctga gctggtcgga gctgtggccc 360
aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420
ggtggatggc ctttttcagct ttaacccaat ttgactgcc ttggaagtgt agccaggaga 480
atacactcat atactcgtgg gcttagaggc cacagcagat gtcattggtc tactgcctga 540
gtcccgtctg tcccatccca ggaccttcca tcggcgagta cctgggagcc cgtgct 596

```

146

<210> 427  
 <211> 107  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(107)  
 <223> n = A,T,C or G

<400> 427  
 gaagaattca agttaggttt attcaaaggg cttacngaga atcctanacc caggncccag 60  
 cccgggagca gccttanaga gtcctgttt gactgcccgg ctcagn 107

<210> 428  
 <211> 38  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(38)  
 <223> n = A,T,C or G

<400> 428  
 gaacttccna anaangactt tattcactat ttacatt 38

<210> 429  
 <211> 544  
 <212> DNA  
 <213> Homo sapiens

<400> 429  
 ctttgctgga cgggaataaaa gtggacgcaa gcatgacctc ctgatgaggg cgctgcattt 60  
 attgaagagc ggctgcagcc ctgcggttca gattaaaatc cgagaattgt atagacgcog 120  
 atatccacga actcttgaag gactttctga tttatccaca atcaaatcat cggttttcag 180  
 tttggatggg ggctcatcac ctgtagaacc tgacttggcc gtggctggaa tccactcgtt 240  
 gccttccact tcagttacac ctcaactcacc atcctctcct gttggttctg tgctgcttca 300  
 agatactaag cccacatttg agatgcagca gccatctccc ccaattctc ctgtccatcc 360  
 tgatgtgcag ttaaaaaatc tgccctttta tgatgtcctt gatgttctca tcaagcccac 420  
 gagtttagtt caaagcagta ttcagcgatt tcaagagaag ttttttattt ttgctttgac 480  
 acctcaacaa gtttagagaga tatgcatatc cagggatttt ttgccagggtg gtaggagaga 540  
 ttat 544

<210> 430  
 <211> 507  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(507)  
 <223> n = A,T,C or G

<400> 430  
 cttatcncaa tggggctccc aaacttgggt gtgcagtggg aactccgggg gaattttgaa 60  
 gaacactgac acccatcttc caccocgaca ctctgattta attgggctgc agtgagaaca 120

147

```

gagcatcaat ttaaaaagct gccagaatg ttntcctggg cagcgttggt atctttgccn 180
ccttcgtgac tttatgcaat gcatcatgct atttcatacc taatgagga gttccaggag 240
attcaaccag gatgtttcta cncctgtggg ttatgacaaa gacaactgcc aaagaatntt 300
caagaaggag gactgcaagt atatcgtggg ggagaagaag gacccaaaaa agacctgttc 360
tgtcagtga tggataatct aatgtgcttc tagtaggcac agggctccca ggccaggcct 420
cattctcctc tggcctctaa tagtcaatga ttgtgtagcc atgcctatca gtaaaaagat 480
ttttgagcaa aaaaaaaaaa aaaaaaa

```

```

<210> 431
<211> 392
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

```

```

<400> 431
gaaaattcag aatggataaa aacaaatgaa gtacaaaata tttcagattt acatagcgat 60
aaacaagaaa gcacttatca ggaggactta caaatggaag tacactctan aaccatcatc 120
tatcatggct aaatgtgaga ttagcacagc tgtattatit gtacattgca aacacctaga 180
aagagatggg aaacaaaatc ccaggagttt tgtgtgtgga gtcctggggt ttccaacaga 240
catcattcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300
acaaaagtga tgttggttagg taaaatgtac aacttctgga tctatgcaga cattgaagggt 360
gcaatgagtc tggcttttac tctgctgttt ct

```

```

<210> 432
<211> 387
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(387)
<223> n = A,T,C or G

```

```

<400> 432
ggtatccnta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60
aaatgcaagg caacatgtgt agatctcttg tottattctt ttgtctataa tactgtattg 120
ngtagtccaa gctctcgga gtccagccac tgngaaacat gctcccttta gattaacctc 180
gtggacnctn ttgttgnatt gtctgaactg tagngccctg tattttgctt ctgtctgnga 240
attctgttgc ttctggggca tttccttgng atgcagagga ccaccacaca gatgacagca 300
atctgaattg ntccaatcac agctgcgatt aagacatact gaaatcgtag aggaccggga 360
acaacgtata gaacactgga gtccttt

```

```

<210> 433
<211> 281
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G

```

```

<400> 433
ttcaactagc anagaanact gcttcagggg gtgtaaaatg aaaggcttcc acgcagttat 60

```

148

```

ctgattaaag aacactaaga gagggacaag gctagaagcc gcaggatgtc tacactatag 120
caggcnctat ttgggttgcc tggaggagct gtggaaaaca tggagagatt ggcgctggag 180
atcgccgtgg ctattcctcn ttgntattac accagnaggg ntctctgtnt gccactgggt 240
tnnaaaaccg ntatacaata atgatagaat aggacacaca t 281

```

```

<210> 434
<211> 484
<212> DNA
<213> Homo sapiens

```

```

<400> 434
ttttaaaata agcatttagt gctcagtcct tactgagtac tctttctctc ccctcctctg 60
aatttaattc tttcaacttg caatttgcaa ggattacaca tttcactgtg atgtatatgg 120
tggtgcaaaa aaaaaaaagt gtctttgttt aaaattactt ggtttgtaga tccatcttgc 180
tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa acatctgaag 240
agctagtcta tcagcatctg acaggtgaat tggatgggtc tcagaacccat ttcaccacaga 300
cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca taacaaaccc 360
tgctccaatc tgtcacataa aagtctgtga cttgaagttt agtcagcacc cccaccaaac 420
tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataaag taccatgtgc 480
ttaa 484

```

```

<210> 435
<211> 424
<212> DNA
<213> Homo sapiens

```

```

<400> 435
gcgcgcgtca gaggaggtca ctttctgcct tccaogtcct ccttcaagga agccccatgt 60
gggtagcttt caatatcgca ggttcttact cctctgcctc tataagctca aaccaccaa 120
cgatcgggca agtaaacccc ctccctcgcc gacttcggaa ctggcgagag ttcagcgag 180
atgggcctgt ggggaggggg caagatagat gagggggagc ggcatgggtc ggggtgaccc 240
cttgagagaa ggaaaaaggg cacaagaggg gctgccaccg ccactaacgg agatggccct 300
ggtagagacc tttgggggtc tggaacctct ggactcccca tgctctaact cccacactct 360
gctatcagaa acttaaaactt gaggattttc tctgtttttc actcgcaata aattcagagc 420
aaac 424

```

```

<210> 436
<211> 667
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(667)
<223> n = A,T,C or G

```

```

<400> 436
accttgggaa nactctcaca atataaaggg tcgtagactt tactccaaat tccaaaaagg 60
tcctggccat gtaatcctga aagttttccc aaggtagcta taaaatcctt ataagggtgc 120
agcctcttct ggaattcctc tgatttcaaa gtctcactct caagttcttg aaaacgaggg 180
cagttcctga aaggcaggta tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240
atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacagggct 300
gccaggtttg tcatagcact catcaaagtc cgggtcaacgt ctgtgcttcg aatataaacc 360
tgttcatgtt tataggactc attcaagaat tttctatatc tctttcttat atactctcca 420
agttcataat gctgctccat gccagctggg gtgagttggc caaatccttg tggccatgag 480
gattccttta tgggggtcagt gggaaagggt tcaatgggac ttcgggtctcc atgccgaaac 540
accaaagtca caaacttcaa ctcttggtgt agtacacttc ggtctagcca gaaaaaagg 600
agaaacaaga agccaaggct aaggcttgct gccctgccag gaggaggggt gcagctctca 660

```

149

tgttgag 667

&lt;210&gt; 437

&lt;211&gt; 693

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 437

```

ctacgtctca accctcattt ttaggtaagg aatcttaagt ccaaagatat taagtgactc 60
acacagccag gtaaggaaag ctggattggc aactaggac tctaccatac cgggttttgt 120
taaagctcag gttaggaggc tgataagctt ggaaggaaact tcagacagct ttttcagatc 180
ataaaagata attccttagcc catgttcttc tccagagcag acctgaaatg acagcacagc 240
aggtactcct ctatitttcac ccctcttget tctactctct gccagtcaga cctgtgggag 300
gccatgggag aaagcagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360
catttctoca ggttacccta ggtgtcacta ttggggggac agccagcatc ttttagctttc 420
atitgagttt ctgtctgtct tcagtagagg aaacttttgc tcttcacact tcacatctga 480
acacctaact gctgttgctc ctgaggtggt gaaagacaga tatagagctt acagtattta 540
tcctatttct aggcaactgag ggctgtgggg taccttgttg tgccaaaaca gatcctgttt 600
taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgttg gctctttacc 660
ctgcatcatg tgctctcttg gctgaaaatg acc 693

```

&lt;210&gt; 438

&lt;211&gt; 360

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 438

```

ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac ctctgtgact 60
ttatgcaatg catcatgcta tttcatacct aatgagggag ttccaggaga ttcaaccagg 120
atgtttctac acctgtgggt tatgacaaag acaactgcc aagaatcttc aagaaggagg 180
actgcaagta tatctggttg agaagaagga ccaaaaaaag acctgttctg tcagtgaatg 240
gataatctaa tgtgcttcta gtaggcacag ggctcccagg ccaggcctca ttctcctctg 300
gcctctaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360

```

&lt;210&gt; 439

&lt;211&gt; 431

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(431)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 439

```

gttcctnnta actcctgcc aaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tgccaggggc agcaagcctt agccttggct tcttgtttct gcttttttcc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgt gtttcggcat ggagaccgaa 180
gtccatttga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtccata aacatgaaca ggtttatatt ogaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgctga cgcggccgcg 420
aatttagtag t 431

```

&lt;210&gt; 440

&lt;211&gt; 523

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

150

```

<400> 440
agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaatgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttacccat cagttccagc 240
cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
actggaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360
taaaaaattaa aacctctttg tgtcccttgg tcttggaaca tttatgttcc ttttaaagaa 420
acaaaaatca aactttacag aaagatttga tgtatgtaac acatatagca gctcttgaag 480
tatatatatc atagcaaata agtcactctga tgagaacaag cta 523

```

```

<210> 441
<211> 430
<212> DNA
<213> Homo sapiens

```

```

<400> 441
gttcctccta actcctgcc a gaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggg gtttcggcat ggagaccgaa 180
gtcccatatga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attccttgaat gagtccctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcgggccgcg 420
aatttagtag 430

```

```

<210> 442
<211> 362
<212> DNA
<213> Homo sapiens

```

```

<400> 442
ctaaggaatt agtagtgttc ccatcacttg tttggagtgt gctattctaa aagattttga 60
tttcttgga tgacaattat attttaactt tgggtgggga aagagttata ggaccacagt 120
cttcacttct gatacttgta aattaatctt ttattgcact tgttttgacc attaagctat 180
atgttttagaa atggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240
aatgaattaa tgttttactt aattttatatt gaactgtcaa tgacaaataa aaattctttt 300
tgattatatt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360
tc 362

```

```

<210> 443
<211> 624
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(624)
<223> n = A,T,C or G

```

```

<400> 443
tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60
ttgaaagaat taaattcaga ggagggggaga gaaagagtac tcagtaggga ctgagcacta 120
aatgcttatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180
tgctggctag tactccggtc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240
cccaaacccac agaaaatggg gtgaaattgg ccaactttct attaaacttg cttcctgttt 300
tataaaatat tgtgaataat atcacctact tcaaagggca gttatgagc ttaaatgaac 360

```



151

```

taacgcctac aaaacactta aacatagata acatagggtgc aagtactatg tatctggtac 420
atggtaaaca tccttattat taaagtcaac gctaaaaatga atgtgtgtgc atatgctaata 480
agtacagaga gagggcactt aaaccaacta agggcctgga gggaagggtt cctggaaaga 540
ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tattttaaat 600
ttgtccctat ctgctaaaca gatac                                     624

```

&lt;210&gt; 444

&lt;211&gt; 425

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(425)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 444

```

gcacatcatt nntcttgcatt tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60
gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120
ttcattgcta tagcataaca caaaatttgc ataagtgggtg gtcagcaaat ccttgaatgc 180
tgcttaattgt gagaggttgg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240
gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300
cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcctcctgt gaagagccaa 360
ggaggcacca gggcataagt gagtagactt atggtcgacg cggccgcgaa tttagtagta 420
gtaga                                     425

```

&lt;210&gt; 445

&lt;211&gt; 414

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(414)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 445

```

catgtttatg nttttggatt actttgggca cctagtgttt ctaaactcgtc tatcattctt 60
ttctgttttt caaaagcaga gatggccaga gtctcaacaa actgtatctt caagtctttg 120
tgaaattctt tgcattgtgc agattattgg atgtagtttc ctttaactag catataaaatc 180
tggtgtgttt cagataaatg aacagcaaaa tgtggtggaa ttaccatttg gaacattgtg 240
aatgaaaaat tgtgtctcta gattatgtaa caaataacta tttcctaacc attgatcttt 300
ggatttttat aatcctactc acaaatgact aggccttctcc tcttgtattt tgaagcagtg 360
tgggtgctgg attgataaaa aaaaaaaaaa tcgacgcggc cgcgaattta gtag      414

```

&lt;210&gt; 446

&lt;211&gt; 631

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(631)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 446

```

acaaattaga anaaagtgcc agagaacacc acataccttg tccggaacat tacaatggct 60
tctgcatgca tgggaagtgt gagcattcta tcaatatgca ggagccatct tgcagggtgtg 120

```

152

```

atgctgggta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttggtc 180
ccggtcctgt acgatttcag tatgtcttaa tcgcagctgt gattggaaca attcagattg 240
ctgtcatctg tgtgggtggc ctctgcatca caagggccaa actttaggta atagcattgg 300
actgagattt gtaaaacttc caaccttcca ggaaatgcc cagaagcaac agaattcaca 360
gacagaagca aaatacaggg cactacagtt cagacaatac aacaagagcg tccacgaggt 420
taatctaaag ggagcatggt tcacagtggc tggactaccg agagcttggg ctacacaata 480
cagtattata gacaaaagaa taagacaaga gatctacaca tgttgccctg catttgtggt 540
aatctacacc aatgaaaaca tgtactacag ctatatattga ttatgtatgg atatatattga 600
aatagtatac attgtcttga tgttttttct g 631

```

```

<210> 447
<211> 585
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(585)
<223> n = A,T,C or G

```

```

<400> 447
ccttgggaaa antntcacaa tataaagggt cgtagacttt actccaaatt ccaaaaagggt 60
cctggccatg taatcctgaa agttttccca aggtagctat aaaatcctta taagggtgca 120
gcctcttctg gaattcctct gatttcaaag tctcactctc aagtctctga aaacgagggc 180
agttcctgaa aggcaggtat agcaactgat cttcagaaaag aggaactgtg tgcaccggga 240
tgggctgcca gagtaggata ggattccaga tgctgacacc ttctggggga aacagggctg 300
ccagggtttgt catagcactc atcaaaagtcc ggtcaacgtc tgtgcttcga atataaacct 360
gttcatgttt ataggactca ttcaagaatt ttctatatct ctttcttata tactctccaa 420
gttcataatg ctgctccatg cccagctggg tgagttggcc aaatccttgt ggccatgagg 480
attcctttat ggggtcagtg ggaaagggtg caatgggact tcggtctcca tgccgaaaca 540
ccaaagtcac aaacttcaac tccttggtca gtacacttcg gtcta 585

```

```

<210> 448
<211> 93
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(93)
<223> n = A,T,C or G

```

```

<400> 448
tgctcgtggg tcattctgan nnccgaactg accntgccag ccctgccgan gggccnccat 60
ggctccctag tgccctggag agganggggc tag 93

```

```

<210> 449
<211> 706
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

```

```

<400> 449
ccaagttcat gctntgtgct ggacgctgga cagggggcaa aagcnnttgc tcgtgggtca 60

```

153

```

ttctgancac cgaactgacc atgccagccc tgccgatggt cctccatggc tccctagtgc 120
cctggagagg aggtgtctag tcagagagta gtccctggaag gtggcctctg ngaggagcca 180
cggggacagc atcctgcaga tggtcgggcg cgtcccattc gccattcagg ctgcgcaact 240
gttgggaagg gcgatcgggt cgggcctctt cgctattacg ccagctggcg aaagggggat 300
gtgctgcaag gcgattaagt tgggtaacgc caggggttttc ccagtcncga cgttgtaaaa 360
cgacggccag tgaattgaat ttaggtgacn ctatagaaga gctatgacgt cgcagtcacg 420
cgtacgtaag cttggatcct ctagagcggc cgcctactac tactaaattc gcggccgctg 480
cgacgtggga tccncactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600
aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncccca 660
gcatggatga cagagtgaag ctccatctta aaaaaaaaaa aaaaaa 706

```

```

<210> 450
<211> 493
<212> DNA
<213> Homo sapiens

```

```

<400> 450
gagacggagt gtcactctgt tgcccaggct ggagtgcagc aagacactgt ctaagaaaaa 60
acagttttta aaggtaaaac aacataaaaa gaaatatcct atagtggaaa taagagagtc 120
aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccaata tcaactgcatg 180
agcctaagta taagaacaac ctttggggag aaaccatcat ttgacagtga ggtacaattc 240
caagtcagggt agtgaaatgg gtggaattaa actcaaatta atcctgccag ctgaaacgca 300
agagacactg tcagagagtt aaaaagttag ttctatccat gaggtgattc cacagtcttc 360
tcaagtcaac acatctgtga actcacagac caagttctta aaccactgtt caaactctgc 420
tacacatcag aatcacctgg agagctttac aaactcccat tgccgagggt cgacgcgggc 480
gcgaatttag tag 493

```

```

<210> 451
<211> 501
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G

```

```

<400> 451
gggcgcgtcc cattcgccat tcaggctgcg caactgttgg gaagggcgat cgggtgcgggc 60
ctcttcgcta ttacgccagc tggcgaaagg gggatgtgct gcaaggcgat taagttgggt 120
aacgccaggg ttttcccagt cncgacgttg taaaacgacg gccagtgaat tgaatttagg 180
tgacnctata gaagagctat gacgtcgcat gcacgcgtac gtaagcttgg atcctctaga 240
gcggccgcct actactacta aattcgcggc cgcgtcgacg tgggatccnc actgagagag 300
tggagagtga catgtgctgg acnctgtcca tgaagcactg agcagaagct ggaggcaca 360
cgcnccagac actcacagct actcaggagg ctgagaacag gttgaacctg ggagggtggag 420
gttgcaatga gctgagatca ggccnctgcn ccccagcatg gatgacagag tgaaactcca 480
tcttaaaaaa aaaaaaaaaa a 501

```

```

<210> 452
<211> 51
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(51)
<223> n = A,T,C or G

```

154

<400> 452  
 agacgggtttc accntttacaa cnccttttag gatgggnntt ggggagcaag c 51

<210> 453  
 <211> 317  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(317)  
 <223> n = A,T,C or G

<400> 453  
 tacatcttgc tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa 60  
 acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatgggtc tcagaaccat 120  
 ttcacccana cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180  
 taacaaaccc tgctccaatc tgtcacataa aagtctgtga cttgaagttt antcagcacc 240  
 cccaccaaac tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300  
 taccatgtc tttatta 317

<210> 454  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 454  
 ttcgaggtac aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60  
 taagccaagc cagctcttgg aaggagtctt gaattctcct ctgctcactc agtagaacca 120  
 agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180  
 ccttctttt tcatgtgttc aaagctcctc acaatttcat gaacaacagc t 231

<210> 455  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 455  
 taccaaagag ggcataataa tcagtctcac agtaggggtc accatcctcc aagtgaaaaa 60  
 cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120  
 gtttcaacgc attgatgact tctccaagga tcttcttttg gcatcgacca cattcagggg 180  
 caaagaattt ctcatagcac agtcacaaat acagggtctc tttctcctct a 231

<210> 456  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 456  
 ttggcaggta cccttataaa gaagacacca taccttatgc gttattaggt ggaataatca 60  
 ttccattcag tattatcggtt attattcttg gagaaaccct gtctgtttac tgtaaccctt 120  
 tgcactcaaa ttcctttatc aggaataact acatagccac tatttataaa gccattggaa 180  
 cctttttatt tgggtgcagct gctagtcagt cctgactga cattgccaaag t 231

<210> 457  
 <211> 231  
 <212> DNA

155

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(231)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 457

```
cgagggtaccc aggggtctga aaatctctnn ttiantagtc gatagcaaaa ttgttcatca 60
gcattcctta atatgatctt gctataatta gatttttctc cattagagtt catacagttt 120
tatttgattt tatttagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
agttgtctaa atcgatgcct catttcctct gaggtgtcgc tggcttttgt g 231
```

&lt;210&gt; 458

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 458

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&lt;210&gt; 459

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 459

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&lt;210&gt; 460

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 460

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&lt;210&gt; 461

&lt;211&gt; 231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 461

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156

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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 464  
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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 466  
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 cctgtgcaat caaatattgt ggagaattcc ctagtggag aagtcacaaa gactataggc 180  
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 <212> DNA  
 <213> Homo sapiens

157

&lt;400&gt; 467

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ctgcagcaga	c					311

&lt;210&gt; 468

&lt;211&gt; 3112

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 468

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158

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&lt;210&gt; 469

&lt;211&gt; 2229

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 469

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&lt;210&gt; 470

&lt;211&gt; 2426

&lt;212&gt; DNA



&lt;213&gt; Homo sapiens

&lt;400&gt; 470

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&lt;210&gt; 471

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 471

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160

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&lt;210&gt; 472

&lt;211&gt; 515

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(515)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 472

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&lt;210&gt; 473

&lt;211&gt; 5829

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 473

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&lt;211&gt; 1594

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 474

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&lt;210&gt; 475

&lt;211&gt; 2414

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; (33)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 475

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&lt;210&gt; 476

&lt;211&gt; 3434

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 476

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aagaaatggc ccagaataa gcttcttgat ttgtaaaatt ctatgtcatt ggctcaaatt 3060
tgtatagtat ctcaaaatat aaatatatag acatctcaga taatatattt gaaatagcaa 3120
attcctgtta gaaaataata gtacttaact agatgagaat aacaggtcgc cattatttga 3180
attgtctcct attcgttttt cathttgttg gttactcatg ttttacttat ggggggatat 3240
atataacttc cgctgttttc agaagtattg tatgcagtca gtatgagaat gcaatttaag 3300
tttcttgat gctttttcac acttctatta ctagaataaa gaatacagta atattggcaa 3360
agaaaattga ccagttcaat aaaatttttt agtaaatctg attgaaaata aaaaaaaaaa 3420
aaaaaaaaaa aaaa 3434

```

&lt;210&gt; 477

&lt;211&gt; 140

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

165

&lt;400&gt; 477

```

Met Asp Gly His Thr Asp Ile Trp Arg Asn His Met Asp Thr Pro Pro
      5                      10                      15
His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr
      20                      25                      30
Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
      35                      40                      45
His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
      50                      55                      60
His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
      65                      70                      75                      80
Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
      85                      90                      95
Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
      100                     105                     110
Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
      115                     120                     125
Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln
      130                     135                     140

```

&lt;210&gt; 478

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 478

```

Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
      5                      10                      15
Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
      20                      25                      30
Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr
      35                      40                      45
His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
      50                      55                      60
Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
      65                      70                      75                      80
Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser
      85                      90                      95
His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp
      100                     105                     110
Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser
      115                     120                     125
His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val
      130                     135                     140

```

&lt;210&gt; 479

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 479

```

Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
      5                      10                      15
Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
      20                      25                      30

```

166

Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr  
                   35                  40                  45  
 His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr  
                   50                  55                  60  
 Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr  
                   65                  70                  75                  80  
 Pro Thr His Cys His Met Asp Thr Ala Thr His Thr Ala Thr Leu Ser  
                   85                  90                  95  
 His Gly His Thr Ser Ile Pro Ser His His His Thr His Cys His Val  
                   100                  105                  110  
 Asp Thr Arg Thr His Arg His Cys His Thr Asp Thr Gln Asn Thr Val  
                   115                  120                  125  
 Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr  
                   130                  135                  140  
 Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His  
                   145                  150                  155                  160  
 Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala  
                   165                  170                  175  
 Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp  
                   180                  185                  190  
 Thr Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala  
                   195                  200                  205  
 Arg Leu Cys Leu Lys Lys Arg Lys Lys Lys Gln Tyr Thr Val  
                   210                  215                  220

&lt;210&gt; 480

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 480

Met Glu Pro Tyr Arg Gly Asn Glu Gln Pro Ser Gln Glu Gln Gly Val  
                   5                  10                  15  
 Cys Cys Leu Trp Gly Leu Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr  
                   20                  25                  30  
 Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg  
                   35                  40                  45  
 Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly  
                   50                  55                  60  
 Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln  
                   65                  70                  75                  80  
 Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys  
                   85                  90                  95  
 Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly  
                   100                  105                  110  
 Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu  
                   115                  120                  125  
 Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly  
                   130                  135                  140

&lt;210&gt; 481

&lt;211&gt; 167

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 481



167

```

Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro
      5              10              15
Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
      20              25              30
Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
      35              40              45
Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
      50              55              60
Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro
      65              70              75              80
Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg
      85              90              95
Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala
      100             105             110
Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His
      115             120             125
Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe
      130             135             140
Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser
145              150              155              160
Trp Leu Ser Arg Gly Arg Pro
      165

```

<210> 482  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens

```

<400> 482
Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val
      5              10              15
Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu
      20              25              30
Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg
      35              40              45
Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly
      50              55              60
Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe
      65              70              75              80
Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr
      85              90              95
Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly
      100             105             110
Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys
      115             120             125
Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly
130              135              140

```

<210> 483  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens

```

<400> 483
Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val
      5              10              15
Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala

```

168

20 25 30  
 Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp  
 35 40 45  
 Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu  
 50 55 60  
 Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp  
 65 70 75 80  
 Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg  
 85 90 95  
 Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val  
 100 105 110  
 Arg Leu Val Gln Ala Glu His Pro Pro His Pro Leu Glu Glu Val  
 115 120 125  
 Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys  
 130 135 140

<210> 484  
 <211> 30  
 <212> PRT  
 <213> Homo Sapien

<400> 484  
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe  
 1 5 10 15  
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile  
 20 25 30

<210> 485  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 485  
 gggaagctta tcacctatgt gccgcctctg c

31

<210> 486  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 486  
 gcgaattctc acgctgagta tttggcc

27

<210> 487  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 487

169

cccgaaattct tagctgccca tccgaacgcc ttcatac

36

<210> 488  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 488  
 gggaagcttc ttccccggct gcaccagctg tgc

33

<210> 489  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 489  
 Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala  
 1 5 10 15  
 Ser Val Ala

<210> 490  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 490  
 Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys  
 1 5 10 15  
 Leu Ser His Ser  
 20

<210> 491  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 491  
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu  
 1 5 10 15  
 Thr Gly Phe Thr  
 20

<210> 492  
 <211> 20  
 <212> PRT

170

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 492

Ala	Leu	Thr	Gly	Phe	Thr	Phe	Ser	Ala	Leu	Gln	Ile	Leu	Pro	Tyr	Thr
1				5					10					15	
Leu	Ala	Ser	Leu												
				20											

&lt;210&gt; 493

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 493

Tyr	Thr	Leu	Ala	Ser	Leu	Tyr	His	Arg	Glu	Lys	Gln	Val	Phe	Leu	Pro
1				5					10					15	
Lys	Tyr	Arg	Gly												
				20											

&lt;210&gt; 494

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 494

Leu	Pro	Lys	Tyr	Arg	Gly	Asp	Thr	Gly	Gly	Ala	Ser	Ser	Glu	Asp	Ser
1				5				10						15	
Leu	Met	Ile	Ser												
				20											

&lt;210&gt; 495

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 495

Asp	Ser	Leu	Met	Thr	Ser	Phe	Leu	Pro	Gly	Pro	Lys	Pro	Gly	Ala	Pro
1				5					10					15	
Phe	Pro	Asn	Gly												
				20											

&lt;210&gt; 496

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

171

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 496

Ala	Pro	Phe	Pro	Asn	Gly	His	Val	Gly	Ala	Gly	Gly	Ser	Gly	Leu	Leu
1				5				10						15	
Pro	Pro	Pro	Pro	Ala											
				20											

&lt;210&gt; 497

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 497

Leu	Leu	Pro	Pro	Pro	Ala	Leu	Cys	Gly	Ala	Ser	Ala	Cys	Asp	Val
1				5				10					15	
Ser	Val	Arg	Val											
				20										

&lt;210&gt; 498

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 498

Asp	Val	Ser	Val	Arg	Val	Val	Val	Gly	Glu	Pro	Thr	Glu	Ala	Arg	Val
1				5				10						15	
Val	Pro	Gly	Arg												
				20											

&lt;210&gt; 499

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 499

Arg	Val	Val	Pro	Gly	Arg	Gly	Ile	Cys	Leu	Asp	Leu	Ala	Ile	Leu	Asp
1				5					10					15	
Ser	Ala	Phe	Leu												
				20											

&lt;210&gt; 500

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

172

```

<223> Made in a lab

<400> 500
Leu Asp Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met
 1             5             10             15
Gly Ser Ile Val
 20

<210> 501
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 501
Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met
 1             5             10             15
Val Ser Ala Ala
 20

<210> 502
<211> 414
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(414)
<223> n=A,T,C or G

<400> 502
caccatggag acaggcctgc gctggctttt cctggctcgt gtgctcaaag gtgtccaatg      60
tcagtcggtg gaggagtccg ggggtcgcct ggtcacgcct gggacacctt tgacantcac      120
ctgtagagtt tttggaatng acctcagtag caatgcaatg agctgggtcc gccaggctcc      180
aggggaaggg ctggaatgga tcggagccat tgataattgt ccacantacg cgacctgggc      240
gaaaggccga ttnatnattt ccaaaacctn gaccacggtg gatttgaaaa tgaccagtcc      300
gacaaccgag gacacggcca cctatttttg tggcagaatg aatactggta atagtggttg      360
gaagaatatt tggggcccag gcaccctggt caccgtntcc tcagggcaac ctaa          414

<210> 503
<211> 379
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(379)
<223> n=A,T,C or G

<400> 503
atncgatggt gcttgggtcaa aggtgtccag tgtcagtcgg tggaggagtc cgggggtcgc      60
ctggtcacgc ctgggacacc cctgacactc acctgcaccg tntctggatt ngacatcagt      120
agctatggag tgagctgggt ccgccaggct ccagggaagg ggctgggnata catcggatca      180
ttagtagtag tggtagattt tacgcgagct gggcgaaagg ccgattcacc atttccaaaa      240
cctngaccac ggtggatttg aaaatcacca gtttgacaac cgaggacacg gccacctatt      300
tntgtgccag aggggggttt aattataaag acatttgggg cccaggcacc ctggtcaccg      360

```

173

tntccttagg gcaacctaa

379

<210> 504  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 504  
 Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu  
 1 5 10 15  
 Asn Ser Ala

<210> 505  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 505  
 Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr  
 1 5 10 15  
 Asn Thr Ala Asn  
 20

<210> 506  
 <211> 407  
 <212> DNA  
 <213> Homo Sapien

<400> 506  
 atggagacag gcctgcgctg gcttctcctg gtcgctgcgc tcaaagggtgt ccagtgtcag 60  
 tcgctggagg agtccggggg tcgcctggtc acgcctggga cacccttgac actcacctgc 120  
 accgtctctg gattctccct cagtagcaat gcaatgatct gggtcgccca ggctccaggg 180  
 aaggggctgg aatacatcgg atacattagt tatggtggtg gcgcatacta cgcgagctgg 240  
 gtgaaaggcc gattcaccat ctccaaaacc tcgaccacgg tggatctgag aatgaccagt 300  
 ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgattt tagtggtatg 360  
 ttgtggggcc caggcaccct ggtcaccgtc tcctcagggc aacctaa 407

<210> 507  
 <211> 422  
 <212> DNA  
 <213> Homo Sapien

<400> 507  
 atggagacag gcctgcgctg gcttctcctg gtcgctgtgc tcaaagggtgt ccagtgtcag 60  
 tcgggtggagg agtccggggg tcgcctggtc acgcctggga cacccttgac actcacctgt 120  
 acagtctctg gattctccct cagcaactac gacctgaact gggtcgccca ggctccaggg 180  
 aaggggctgg aatggatcgg gatcattaat tatgttggtg ggacggacta cgcgaactgg 240  
 ccgaaaaggcc ggttcaccat ctccaaaacc tcgaccacgg tggatctcaa gatcgccagt 300  
 ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct 360  
 ggtccgtgct tgcgcatctg gggcccaggc accctgggtc cgtctctctt agggcaacct 420

174

aa

422

<210> 508  
 <211> 411  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(411)  
 <223> n=A,T,C or G

<400> 508  
 atggagacag gcctcgctgg cttctcctgg tcgctgtgct caaagggtgc cagtgtcagt 60  
 cggtggagga gtccgggggt cgcctgggta cgcctgggac acccctgaca ctacacctgca 120  
 cagtctctgg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccaggga 180  
 aggggctgga atggatcgga atcattggta ctctggtgta cacatactac gcgaggtggg 240  
 cgaaaggccg attcaccatc tccaaaacct cgaccacggt gcatntgaaa atcnccagtc 300  
 cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta 360  
 ctgggttatta taaaatctgg ggcccaggca ccttggtcac cgtctccttg g 411

<210> 509  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 509  
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
 1 5 10 15

<210> 510  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 510  
 Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile  
 1 5 10 15

<210> 511  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 511

Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln Lys  
 1 5 10 15



175

<210> 512  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 512  
 Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu  
 1 5 10 15

<210> 513  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 513  
 Ala Pro Cys Gly Gln Val Gly Val Pro Asx Val Tyr Thr Asn Leu  
 1 5 10 15

<210> 514  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 514  
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
 1 5 10 15

<210> 515  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 515  
 Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg  
 1 5 10 15

<210> 516  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 516  
 Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln

176

```

1           5           10           15

<210> 517
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 517
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met
1           5           10           15

<210> 518
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 518
Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
1           5           10           15

<210> 519
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 519
Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg Asn Tyr Asp Glu Gly Cys
1           5           10           15
Gly

<210> 520
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 520
Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
1           5           10           15
Glu Ala Arg Arg His Tyr Asp Glu Gly
20          25

<210> 521
<211> 21
<212> PRT
<213> Artificial Sequence

```

177

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 521

Ala	Pro	Phe	Pro	Asn	Gly	His	Val	Gly	Ala	Gly	Gly	Ser	Gly	Leu	Leu
1				5					10					15	
Pro	Pro	Pro	Pro	Ala											
				20											

&lt;210&gt; 522

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 522

Leu	Leu	Val	Val	Pro	Ala	Ile	Lys	Lys	Asp	Tyr	Gly	Ser	Gln	Glu	Asp
1				5					10					15	
Phe	Thr	Gln	Val												
			20												

&lt;210&gt; 523

&lt;211&gt; 254

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(254)

&lt;223&gt; Xaa = any amino acid

&lt;400&gt; 523

Met	Ala	Thr	Ala	Gly	Asn	Pro	Trp	Gly	Trp	Phe	Leu	Gly	Tyr	Leu	Ile
1				5					10					15	
Leu	Gly	Val	Ala	Gly	Ser	Leu	Val	Ser	Gly	Ser	Cys	Ser	Gln	Ile	Ile
		20						25					30		
Asn	Gly	Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu
		35					40					45			
Val	Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln
	50					55					60				
Trp	Val	Leu	Ser	Ala	Thr	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly
65					70				75					80	
Leu	Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met
			85						90					95	
Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu
		100						105					110		
Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu
		115					120					125			
Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala
	130					135					140				
Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg
145					150					155					160

178

Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu  
 165 170 175  
 Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys  
 180 185 190  
 Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser Gly  
 195 200 205  
 Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly  
 210 215 220  
 Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu  
 225 230 235 240  
 Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
 245 250

<210> 524  
 <211> 765  
 <212> DNA  
 <213> Homo sapien

<400> 524  
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 tcgcagccct ggcaggcggc actgggtcatg gaaaacgaat tgttctgctc gggcgctcctg 180  
 gtgcacccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 240  
 ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc 300  
 ctctccgtac ggcacccaga gtacaacaga cccttgctcg ctaacgacct catgctcatc 360  
 aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag 420  
 tgccctacog cggggaactc ttgcctcggt tctggctggg gtctgctggc gaacggcaga 480  
 atgcctaccg tgctgcagtg cgtgaacgtg tcggtggtgt ctgaggaggt ctgcagtaag 540  
 ctctatgacc cgctgtacca cccagcatg ttctgcgccg gcggagggca agaccagaag 600  
 gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 660  
 gtgtctttcg gaaaagcccc gtgtggccaa gttggcgtgc caggtgtcta caccaacctc 720  
 tgcaaattca ctgagtggat agagaaaacc gtccaggcca gtttaa 765

<210> 525  
 <211> 254  
 <212> PRT  
 <213> Homo sapien

<400> 525  
 Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile  
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 Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile  
 20 25 30  
 Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu  
 35 40 45  
 Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln  
 50 55 60  
 Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly  
 65 70 75 80  
 Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met  
 85 90 95  
 Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu  
 100 105 110  
 Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu  
 115 120 125  
 Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala  
 130 135 140  
 Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg

179

145		150		155		160									
Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu
				165					170					175	
Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys
			180					185					190		
Ala	Gly	Gly	Gly	Gln	Asp	Gln	Lys	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly
			195				200					205			
Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly
			210			215					220				
Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu
			225		230				235					240	
Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser		
			245						250						

<210> 526  
 <211> 963  
 <212> DNA  
 <213> Homo sapiens

<400> 526  
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 aactgcatcg tggctctcat cgtaaggacg gaacgcagcc tgcacgctcc gatgtacctc 180  
 tttctctgca tgcttgacgc cattgacctg gccttatcca catccaccat gcctaagatc 240  
 cttgcccttt tctgggttga ttcccgagag attagctttg aggcctgtct taccagatg 300  
 ttctttattc atgccctctc agccattgaa tccaccatcc tgctggccat ggcctttgac 360  
 cgttatgtgg ccatctgccca cccactgogc catgctgcag tgctcaacaa tacagtaaca 420  
 gccagattg gcatcgtggc tgtggtcgcg ggatccctct tttttttccc actgcctctg 480  
 ctgatcaagc ggctggcctt ctgccactcc aatgtcctct cgcaactccta ttgtgtccac 540  
 caggatgtaa tgaagtggc ctatgcagac actttgccc aatgtgtgata tggctcttact 600  
 gccattctgc tggtcattgg cgtggacgta atgttcatct ccttgtccta ttttctgata 660  
 ataogaacgg ttctgcaact gccttccaag tcagagcggg ccaaggcctt tggaacctgt 720  
 gtgtcacaca ttggtgtggt actgccttc tatgtgccac ttattggcct ctcaagttgta 780  
 caccgctttg gaaacagcct tcatccatt gtgcgtgttg tcatgggtga catctacctg 840  
 ctgctgcctc ctgtcatcaa tcccatcatc tatggtgcc aaaccaaaaca gatcagaaca 900  
 cgggtgctgg ctatgttcaa gatcagctgt gacaaggact tgcaggctgt gggaggcaag 960  
 tga 963

<210> 527  
 <211> 320  
 <212> PRT  
 <213> Homo sapiens

<400> 527
Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
5 10 15
Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
20 25 30
Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
35 40 45
Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
50 55 60
Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
65 70 75 80
Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
85 90 95
Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
100 105 110

180

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro  
 115 120 125  
 Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly  
 130 135 140  
 Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu  
 145 150 155 160  
 Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser  
 165 170 175  
 Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu  
 180 185 190  
 Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val  
 195 200 205  
 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val  
 210 215 220  
 Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys  
 225 230 235 240  
 Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly  
 245 250 255  
 Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg  
 260 265 270  
 Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro  
 275 280 285  
 Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala  
 290 295 300  
 Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys  
 305 310 315 320

<210> 528  
 <211> 20  
 <212> DNA  
 <213> Homo Sapien

<400> 528  
 actatggtcc agaggctgtg 20

<210> 529  
 <211> 20  
 <212> DNA  
 <213> Homo Sapien

<400> 529  
 atcacctatg tgccgcctct 20

<210> 530  
 <211> 1852  
 <212> DNA  
 <213> Homo sapiens

<400> 530  
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 aaaaccacct atgacaagcc cacagccaac ataatactaa atggggaaaa gttagaagca 120  
 tttcctctga gaactgcaac aataaataca aggatgctgg attttgtcaa atgccttttc 180  
 tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240  
 ttattgactt gcctgtgtta gaccggaaga gctgggggtg ttctcaggag ccaccgtgtg 300  
 ctgcggcagc ttcgggataa cttgaggctg catcactggg gaagaaacac aytctgtgcc 360  
 gtggcgctga tggctgagga cagagcttca gtgtggcttc tctgcgactg gcttcttcgg 420  
 ggagttcttc cttcatagtt catccatatg gctccagagg aaaattatat tattttgtta 480  
 tggatgaaga gtattacgtt gtgcagatat actgcagtgt cttcatctct tgatgtgtga 540

181

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ttgggtaggt tccaccatgt tgccgcagat gacatgattt cagtacctgt gtctggctga 600
aaagtgtttg tttgtgaatg gataattgtg tttctggatc tcatcctctg tgggtggaca 660
gctttctcca ctttgcctga agtgacctgc tgtccagaag tttgatggct gaggagtata 720
ccatcgtgca tgcattcttc atttctctgc tttcttcctc cctggatgga cagggggagc 780
ggcaagagca acgtgggcac ttctggagac cacaacgact cctctgtgaa gacgcttggg 840
agcaagaggt gcaagtgggt ctgccactgc ttccctctgt gcagggggag cggcaagagc 900
aacgtgggtc cttggggaga ctacgatgac agcgcttca tggatcccag gtaccacgtc 960
catggagaag atctggacaa gctccacaga gctgcctggg ggggtaaagt cccagaaaag 1020
gatctcatcg tcatgctcag ggacacggat gtgaacaaga gggacaagca aaagaggact 1080
gctctacatc tggcctctgc caatgggaat tcagaagtag taaaactcgt gctggacaga 1140
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tgccaggaag atgaatgtgc gttaatgttg ctggaacatg gcactgatcc aaatattcca 1260
gatgagtatg gaaataccac tctacactat gctgtctaca atgaagataa attaatggcc 1320
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ggatcagcaa gtatagtcag ccctctactt gagcaaaatg ttgatgtatc ttctcaagat 1560
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aagacttaaa gctgacatca gaggaagagt cacaaggct taaaggaaat gaaaacagcc 1740
agccagagct agaagattta tggctattga agaagaatga agaacacgga agtactcatg 1800
tgggattccc agaaaacctg actaacggtg ccgctgctgg caatggtgat ga 1852

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&lt;210&gt; 531

&lt;211&gt; 879

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 531

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atgcatcttt catttctctgc atttcttctc ccctggatgg acagggggag cggcaagagc 60
aacgtgggca cttctggaga ccacaacgac tctctgtgga agacgcttgg gagcaagagg 120
tgcaagtggg gctgccactg cttcccctgc tgcaggggga gcggcaagag caacgtgggtc 180
gcttggggag actacgatga cagcgcttcc atggatccca ggtaccacgt ccatggagaa 240
gatctggaca agctccacag agctgcctgg tggggtaaag tcccagaaa ggatctcatc 300
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ctggcctctg ccaatgggaa ttcagaagta gtaaaactcg tgctggacag acgatgtcaa 420
cttaatgtcc ttgacaacaa aaagaggaca gctctgacaa aggcgtaca atgccaggaa 480
gatgaatgtg cggttaatgtt gctggaacat ggcactgatc caaatattcc agatgagtat 540
ggaaatacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
ctcttatacg gtgctgatat cgaatcaaaa aacaagcatg gcctcacacc actgctactt 660
ggtatacatg agcaaaaaca gcaagtgggtg aaatttttaa tcaagaaaaa agcgaattta 720
aatgcgctgg atagatatgg aagaactgct ctcatacttg ctgtatgttg tggatcagca 780
agtatagtca gccctctact tgagcaaaat gttgatgtat cttctcaaga tctggaaaaga 840
cggccagaga gtatgctgtt tctagtcatc atcatgtaa 879

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&lt;210&gt; 532

&lt;211&gt; 292

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 532

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Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
      5              10              15
Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
      20              25              30
Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
      35              40              45
Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp

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182

50	55	60
Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu		
65	70	75
Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg		
85	90	95
Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp		
100	105	110
Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser		
115	120	125
Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu		
130	135	140
Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu		
145	150	155
Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile		
165	170	175
Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu		
180	185	190
Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu		
195	200	205
Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu		
210	215	220
Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu		
225	230	235
Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys		
245	250	255
Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp		
260	265	270
Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu		
275	280	285
Val Ile Ile Met		
290		

<210> 533  
 <211> 801  
 <212> DNA  
 <213> Homo sapiens

<400> 533  
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 tatgccactg cagcattctt ggttgccaag aggccaaacca caggccatct tgagaaggag 180  
 tttatgttcc actgcagaaa gcagccagga tcaccatcca ggggacttgg tcttctgtgg 240  
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 gtacctcaaa tctgtgcgtg ccagacaagg ccaaactggc tcaatgagca accagccacc 360  
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 ggatggccat gttccacag cctgagtggc tgccacctga tggctgatat agcaaaggcc 480  
 ttaggaaaag cagatggccc ttggccctac ctttttgtta gaagaactga tgttccatgt 540  
 cctgcagcga gtgaggttgg tggctgtgcc ccagctcct ggcacaccct cgcagaggtg 600  
 actggttgct ctttgagccc tcttagcctt gccagcatg cacaagcctc agtgctacta 660  
 ctgtgctaca aatggagcca tataggggaa acgagcagcc atctcaggag caaggtgtat 720  
 gctgcctttg ggggctccag tccttgccctc aagggtctta tgtcactgtg ggcttcttgg 780  
 ttgccaagag gcagaccata g 801

<210> 534  
 <211> 266  
 <212> PRT  
 <213> Homo sapiens



183

&lt;400&gt; 534

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Met Tyr Lys Leu Gln Cys Asn Asn Cys Ala Thr Asn Gly Ala Thr Glu
                    5                      10                      15
Arg Lys Gln Ala Ala Gly Ser Gly Ala Gly Tyr Ala Leu Pro Ser Ala
                20                      25                      30
Leu Gln Ser Met Pro Gln Gly Ser Tyr Ala Thr Ala Arg Phe Leu Val
                35                      40                      45
Ala Lys Arg Pro Thr Thr Gly His Leu Glu Lys Glu Phe Met Phe His
                50                      55                      60
Cys Arg Lys Gln Pro Gly Ser Pro Ser Arg Gly Leu Gly Leu Leu Trp
                65                      70                      75                      80
Pro Trp Pro Asp Ile Glu Phe Val Pro Arg Gln Asp Lys Leu Thr Gln
                85                      90                      95
Ser Ser Val Leu Val Pro Gln Ile Cys Ala Cys Gln Thr Arg Pro Asn
                100                     105                     110
Trp Leu Asn Glu Gln Pro Ala Thr Ser Ala Gly Val Arg Leu Glu Glu
                115                     120                     125
Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys
                130                     135                     140
Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala
                145                     150                     155                     160
Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr
                165                     170                     175
Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser
                180                     185                     190
Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu
                195                     200                     205
Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys
                210                     215                     220
Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr
                225                     230                     235                     240
Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu
                245                     250                     255
Trp Ala Ser Trp Leu Pro Arg Gly Arg Pro
                260                     265

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&lt;210&gt; 535

&lt;211&gt; 6082

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 535

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cggagcccgc ggccactgcc gcctgatcag cgcgaccccg gcccgcgccc gccccgcccg 180
gcaagatgct gcccgtgtac caggaggtga agcccaaccc gctgcaggac gcgaacctct 240
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ctttaacaag agcaatcata aagtgttact ggaaatctta ttttagttttg ggaattttta 480
cgттаattga ggaaagtgcc aaagtaatcc agcccatatt tttgggaaaa attattaatt 540
attttgaaaa ttatgatccc atggattctg tggctttgaa cacagcgtag gcctatgcca 600
cggtgctgac tttttgcacg ctcatctttg ctatactgca tcacttatat ttttatcacg 660
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ccaatgatgt gaacaagttt gatcagggtga cagtgttctt acacttctctg tgggcaggac 840

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catcactgag	gagtaaaact	gcaactttca	cggatgccag	gatcaggacc	atgaatgaag	1020
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tgaatttggc	ttcgtttttc	agtgaagca	aaatcatcgt	gtttgtgacc	ttcaccacct	1200
acgtgctoct	cggcagtg	atcacagcca	gcgcgtgtt	cgtggcagtg	acgtgtatg	1260
gggctgtg	gctgacggtt	accctcttct	tccctcagc	cattgagagg	gtgtcagagg	1320
caatcgtcag	catccgaaga	atccagacct	ttttgctact	tgatgagata	tcacagcgca	1380
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&lt;211&gt; 6140

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;221&gt; misc\_feature

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&lt;223&gt; n=A,T,C or G

&lt;400&gt; 536

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&lt;210&gt; 537

&lt;211&gt; 1228

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 537

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Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu Leu Gln Gly Phe Trp
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Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr Asp Pro Met Asp Ser
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Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr Phe Tyr His Val Gln
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188

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Leu	Lys	Lys	Asp	Leu	Gln	Leu	Leu	Glu	Asp	Gly	Asp	Leu	Thr	Val	Ile
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Gly	Asp	Arg	Gly	Thr	Thr	Leu	Ser	Gly	Gly	Gln	Lys	Ala	Arg	Val	Asn
	530					535					540				
Leu	Ala	Arg	Ala	Val	Tyr	Gln	Asp	Ala	Asp	Ile	Tyr	Leu	Leu	Asp	Asp
545					550					555					560
Pro	Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg	His	Leu	Phe	Glu	Leu
			565						570					575	
Cys	Ile	Cys	Gln	Ile	Leu	His	Glu	Lys	Ile	Thr	Ile	Leu	Val	Thr	His
		580						585					590		
Gln	Leu	Gln	Tyr	Leu	Lys	Ala	Ala	Ser	Gln	Ile	Leu	Ile	Leu	Lys	Asp
		595					600					605			
Gly	Lys	Met	Val	Gln	Lys	Gly	Thr	Tyr	Thr	Glu	Phe	Leu	Lys	Ser	Gly
	610					615					620				
Ile	Asp	Phe	Gly	Ser	Leu	Leu	Lys	Lys	Asp	Asn	Glu	Glu	Ser	Glu	Gln
625					630					635					640

Pro	Pro	Val	Pro	Gly	Thr	Pro	Thr	Leu	Arg	Asn	Arg	Thr	Phe	Ser	Glu	645	650	655
Ser	Ser	Val	Trp	Ser	Gln	Gln	Ser	Ser	Arg	Pro	Ser	Leu	Lys	Asp	Gly	660	665	670
Ala	Leu	Glu	Ser	Gln	Asp	Thr	Glu	Asn	Val	Pro	Val	Thr	Leu	Ser	Glu	675	680	685
Glu	Asn	Arg	Ser	Glu	Gly	Lys	Val	Gly	Phe	Gln	Ala	Tyr	Lys	Asn	Tyr	690	695	700
Phe	Arg	Ala	Gly	Ala	His	Trp	Ile	Val	Phe	Ile	Phe	Leu	Ile	Leu	Leu	705	710	715
Asn	Thr	Ala	Ala	Gln	Val	Ala	Tyr	Val	Leu	Gln	Asp	Trp	Trp	Leu	Ser	725	730	735
Tyr	Trp	Ala	Asn	Lys	Gln	Ser	Met	Leu	Asn	Val	Thr	Val	Asn	Gly	Gly	740	745	750
Gly	Asn	Val	Thr	Glu	Lys	Leu	Asp	Leu	Asn	Trp	Tyr	Leu	Gly	Ile	Tyr	755	760	765
Ser	Gly	Leu	Thr	Val	Ala	Thr	Val	Leu	Phe	Gly	Ile	Ala	Arg	Ser	Leu	770	775	780
Leu	Val	Phe	Tyr	Val	Leu	Val	Asn	Ser	Ser	Gln	Thr	Leu	His	Asn	Lys	785	790	795
Met	Phe	Glu	Ser	Ile	Leu	Lys	Ala	Pro	Val	Leu	Phe	Phe	Asp	Arg	Asn	805	810	815
Pro	Ile	Gly	Arg	Ile	Leu	Asn	Arg	Phe	Ser	Lys	Asp	Ile	Gly	His	Leu	820	825	830
Asp	Asp	Leu	Leu	Pro	Leu	Thr	Phe	Leu	Asp	Phe	Ile	Gln	Thr	Leu	Leu	835	840	845
Gln	Val	Val	Gly	Val	Val	Ser	Val	Ala	Val	Ala	Val	Ile	Pro	Trp	Ile	850	855	860
Ala	Ile	Pro	Leu	Val	Pro	Leu	Gly	Ile	Ile	Phe	Ile	Phe	Leu	Arg	Arg	865	870	875
Tyr	Phe	Leu	Glu	Thr	Ser	Arg	Asp	Val	Lys	Arg	Leu	Glu	Ser	Thr	Thr	885	890	895
Arg	Ser	Pro	Val	Phe	Ser	His	Leu	Ser	Ser	Ser	Leu	Gln	Gly	Leu	Trp	900	905	910
Thr	Ile	Arg	Ala	Tyr	Lys	Ala	Glu	Glu	Arg	Cys	Gln	Glu	Leu	Phe	Asp	915	920	925
Ala	His	Gln	Asp	Leu	His	Ser	Glu	Ala	Trp	Phe	Leu	Phe	Leu	Thr	Thr	930	935	940
Ser	Arg	Trp	Phe	Ala	Val	Arg	Leu	Asp	Ala	Ile	Cys	Ala	Met	Phe	Val	945	950	955
Ile	Ile	Val	Ala	Phe	Gly	Ser	Leu	Ile	Leu	Ala	Lys	Thr	Leu	Asp	Ala	965	970	975
Gly	Gln	Val	Gly	Leu	Ala	Leu	Ser	Tyr	Ala	Leu	Thr	Leu	Met	Gly	Met	980	985	990
Phe	Gln	Trp	Cys	Val	Arg	Gln	Ser	Ala	Glu	Val	Glu	Asn	Met	Met	Ile	995	1000	1005
Ser	Val	Glu	Arg	Val	Ile	Glu	Tyr	Thr	Asp	Leu	Glu	Lys	Glu	Ala	Pro	1010	1015	1020
Trp	Glu	Tyr	Gln	Lys	Arg	Pro	Pro	Pro	Ala	Trp	Pro	His	Glu	Gly	Val	1025	1030	1035
Ile	Ile	Phe	Asp	Asn	Val	Asn	Phe	Met	Tyr	Ser	Pro	Gly	Gly	Pro	Leu	1045	1050	1055
Val	Leu	Lys	His	Leu	Thr	Ala	Leu	Ile	Lys	Ser	Gln	Glu	Lys	Val	Gly	1060	1065	1070
Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys	Ser	Ser	Leu	Ile	Ser	Ala	Leu	1075	1080	1085
Phe	Arg	Leu	Ser	Glu	Pro	Glu	Gly	Lys	Ile	Trp	Ile	Asp	Lys	Ile	Leu	1090	1095	1100

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Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys Lys Met Ser Ile Ile  
 1105 1110 1115 1120  
 Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met Arg Lys Asn Leu Asp  
 1125 1130 1135  
 Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp Asn Ala Leu Gln Glu  
 1140 1145 1150  
 Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro Gly Lys Met Asp Thr  
 1155 1160 1165  
 Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val Gly Gln Arg Gln Leu  
 1170 1175 1180  
 Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile  
 1185 1190 1195 1200  
 Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln  
 1205 1210 1215  
 Lys Lys Ser Gly Arg Asn Leu Pro Thr Ala Pro Cys  
 1220 1225

&lt;210&gt; 538

&lt;211&gt; 1261

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 538

Met Tyr Ser Val Leu Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu  
 5 10 15  
 Leu Gln Gly Phe Trp Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala  
 20 25 30  
 Gln Lys Pro Ser Leu Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser  
 35 40 45  
 Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val  
 50 55 60  
 Ile Gln Pro Ile Phe Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr  
 65 70 75 80  
 Asp Pro Met Asp Ser Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr  
 85 90 95  
 Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr  
 100 105 110  
 Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys  
 115 120 125  
 His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly  
 130 135 140  
 Lys Thr Thr Thr Gly Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn  
 145 150 155 160  
 Lys Phe Asp Gln Val Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro  
 165 170 175  
 Leu Gln Ala Ile Ala Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile  
 180 185 190  
 Ser Cys Leu Ala Gly Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln  
 195 200 205  
 Ser Cys Phe Gly Lys Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr  
 210 215 220  
 Phe Thr Asp Ala Arg Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile  
 225 230 235 240  
 Arg Ile Ile Lys Met Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile  
 245 250 255  
 Thr Asn Leu Arg Lys Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys  
 260 265 270  
 Leu Arg Gly Met Asn Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile



		275					280					285			
Val	Phe	Val	Thr	Phe	Thr	Thr	Tyr	Val	Leu	Leu	Gly	Ser	Val	Ile	Thr
	290					295					300				
Ala	Ser	Arg	Val	Phe	Val	Ala	Val	Thr	Leu	Tyr	Gly	Ala	Val	Arg	Leu
305					310					315					320
Thr	Val	Thr	Leu	Phe	Phe	Pro	Ser	Ala	Ile	Glu	Arg	Val	Ser	Glu	Ala
				325					330					335	
Ile	Val	Ser	Ile	Arg	Arg	Ile	Gln	Thr	Phe	Leu	Leu	Leu	Asp	Glu	Ile
			340					345					350		
Ser	Gln	Arg	Asn	Arg	Gln	Leu	Pro	Ser	Asp	Gly	Lys	Lys	Met	Val	His
		355					360					365			
Val	Gln	Asp	Phe	Thr	Ala	Phe	Trp	Asp	Lys	Ala	Ser	Glu	Thr	Pro	Thr
	370					375					380				
Leu	Gln	Gly	Leu	Ser	Phe	Thr	Val	Arg	Pro	Gly	Glu	Leu	Leu	Ala	Val
385					390					395					400
Val	Gly	Pro	Val	Gly	Ala	Gly	Lys	Ser	Ser	Leu	Leu	Ser	Ala	Val	Leu
				405					410					415	
Gly	Glu	Leu	Ala	Pro	Ser	His	Gly	Leu	Val	Ser	Val	His	Gly	Arg	Ile
			420					425					430		
Ala	Tyr	Val	Ser	Gln	Gln	Pro	Trp	Val	Phe	Ser	Gly	Thr	Leu	Arg	Ser
		435					440					445			
Asn	Ile	Leu	Phe	Gly	Lys	Lys	Tyr	Glu	Lys	Glu	Arg	Tyr	Glu	Lys	Val
	450					455					460				
Ile	Lys	Ala	Cys	Ala	Leu	Lys	Lys	Asp	Leu	Gln	Leu	Leu	Glu	Asp	Gly
465					470					475					480
Asp	Leu	Thr	Val	Ile	Gly	Asp	Arg	Gly	Thr	Thr	Leu	Ser	Gly	Gly	Gln
				485					490					495	
Lys	Ala	Arg	Val	Asn	Leu	Ala	Arg	Ala	Val	Tyr	Gln	Asp	Ala	Asp	Ile
			500					505					510		
Tyr	Leu	Leu	Asp	Asp	Pro	Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg
		515					520					525			
His	Leu	Phe	Glu	Leu	Cys	Ile	Cys	Gln	Ile	Leu	His	Glu	Lys	Ile	Thr
	530					535					540				
Ile	Leu	Val	Thr	His	Gln	Leu	Gln	Tyr	Leu	Lys	Ala	Ala	Ser	Gln	Ile
545					550					555					560
Leu	Ile	Leu	Lys	Asp	Gly	Lys	Met	Val	Gln	Lys	Gly	Thr	Tyr	Thr	Glu
				565					570					575	
Phe	Leu	Lys	Ser	Gly	Ile	Asp	Phe	Gly	Ser	Leu	Leu	Lys	Lys	Asp	Asn
			580					585					590		
Glu	Glu	Ser	Glu	Gln	Pro	Pro	Val	Pro	Gly	Thr	Pro	Thr	Leu	Arg	Asn
		595					600					605			
Arg	Thr	Phe	Ser	Glu	Ser	Ser	Val	Trp	Ser	Gln	Gln	Ser	Ser	Arg	Pro
	610					615					620				
Ser	Leu	Lys	Asp	Gly	Ala	Leu	Glu	Ser	Gln	Asp	Thr	Glu	Asn	Val	Pro
625				</											

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				740						745				750			
Thr	Leu	His	Asn	Lys	Met	Phe	Glu	Ser	Ile	Leu	Lys	Ala	Pro	Val	Leu		
		755					760					765					
Phe	Phe	Asp	Arg	Asn	Pro	Ile	Gly	Arg	Ile	Leu	Asn	Arg	Phe	Ser	Lys		
	770					775					780						
Asp	Ile	Gly	His	Leu	Asp	Asp	Leu	Leu	Pro	Leu	Thr	Phe	Leu	Asp	Phe		
785					790					795					800		
Ile	Gln	Thr	Leu	Leu	Gln	Val	Val	Gly	Val	Val	Ser	Val	Ala	Val	Ala		
			805					810							815		
Val	Ile	Pro	Trp	Ile	Ala	Ile	Pro	Leu	Val	Pro	Leu	Gly	Ile	Ile	Phe		
			820					825						830			
Ile	Phe	Leu	Arg	Arg	Tyr	Phe	Leu	Glu	Thr	Ser	Arg	Asp	Val	Lys	Arg		
		835					840					845					
Leu	Glu	Ser	Thr	Thr	Arg	Ser	Pro	Val	Phe	Ser	His	Leu	Ser	Ser	Ser		
	850					855					860						
Leu	Gln	Gly	Leu	Trp	Thr	Ile	Arg	Ala	Tyr	Lys	Ala	Glu	Glu	Arg	Cys		
865					870					875					880		
Gln	Glu	Leu	Phe	Asp	Ala	His	Gln	Asp	Leu	His	Ser	Glu	Ala	Trp	Phe		
			885					890							895		
Leu	Phe	Leu	Thr	Thr	Ser	Arg	Trp	Phe	Ala	Val	Arg	Leu	Asp	Ala	Ile		
			900					905						910			
Cys	Ala	Met	Phe	Val	Ile	Ile	Val	Ala	Phe	Gly	Ser	Leu	Ile	Leu	Ala		
	915						920					925					
Lys	Thr	Leu	Asp	Ala	Gly	Gln	Val	Gly	Leu	Ala	Leu	Ser	Tyr	Ala	Leu		
	930				935						940						
Thr	Leu	Met	Gly	Met	Phe	Gln	Trp	Cys	Val	Arg	Gln	Ser	Ala	Glu	Val		
945					950					955					960		
Glu	Asn	Met	Met	Ile	Ser	Val	Glu	Arg	Val	Ile	Glu	Tyr	Thr	Asp	Leu		
			965						970						975		
Glu	Lys	Glu	Ala	Pro	Trp	Glu	Tyr	Gln	Lys	Arg	Pro	Pro	Pro	Ala	Trp		
			980					985						990			
Pro	His	Glu	Gly	Val	Ile	Ile	Phe	Asp	Asn	Val	Asn	Phe	Met	Tyr	Ser		
		995					1000					1005					
Pro	Gly	Gly	Pro	Leu	Val	Leu	Lys	His	Leu	Thr	Ala	Leu	Ile	Lys	Ser		
	1010					1015					1020						
Gln	Glu	Lys	Val	Gly	Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys	Ser	Ser		
1025				1030						1035					1040		
Leu	Ile	Ser	Ala	Leu	Phe	Arg	Leu	Ser	Glu	Pro	Glu	Gly	Lys	Ile	Trp		
			1045						1050						1055		
Ile																	

193

				1205					1210				1215			
Val	Leu	Leu	Gln	Asn	Lys	Glu	Ser	Leu	Phe	Tyr	Lys	Met	Val	Gln	Gln	
			1220						1225				1230			
Leu	Gly	Lys	Ala	Glu	Ala	Ala	Ala	Leu	Thr	Glu	Thr	Ala	Lys	Gln	Arg	
		1235					1240					1245				
Trp	Gly	Phe	Thr	Met	Leu	Ala	Arg	Leu	Val	Ser	Asn	Ser				
	1250					1255					1260					

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<210> 539
<211> 10
<212> PRT
<213> Artificial Sequence
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```
<220>
<223> Made in a lab
```

```
<400> 539
Cys Leu Ser His Ser Val Ala Val Val Thr
 1                      5                      10
```

```
<210> 540
<211> 9
<212> PRT
<213> Artificial Sequence
```

```
<220>
<223> Made in a lab
```

<400> 540  
Ala Val Val Thr Ala Ser Ala Ala Leu  
1 5

```
<210> 541
<211> 14
<212> PRT
<213> Homo sapiens
```

<400> 541  
Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu  
5 10

```
<210> 542
<211> 15
<212> PRT
<213> Homo sapiens
```

<400> 542  
 Thr Gln Val Val Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala  
                   5                  10                  15

```
<210> 543
<211> 12
<212> PRT
<213> Homo sapiens
```

<400> 543  
Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val  
                    5                    10

194

<210> 544  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 544  
 Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe  
                           5                          10                          15  
 Met Thr

<210> 545  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 545  
 Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala  
                           5                          10                          15  
 Ser Val

<210> 546  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 546  
 Phe Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly  
                           5                          10                          15  
 Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg Met  
                           20                          25

<210> 547  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 547  
 Val Ala Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu  
                           5                          10                          15  
 Ser Ala Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu  
                           20                          25                          30  
 Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys  
                           35                          40                          45  
 Cys Arg Met Pro Arg Thr Leu Arg Arg Leu  
                           50                          55

<210> 548  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 548  
 Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu

195

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                    5              10              15
Glu Cys
<210> 549
<211> 18
<212> PRT
<213> Homo sapiens

<400> 549
Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg
                5                      10                  15
Gln Ala
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```
<210> 550
<211> 14
<212> PRT
<213> Homo sapiens
```

<400> 550  
Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe  
5 10

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<210> 551
<211> 11
<212> PRT
<213> Artificial Sequence
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<220>  
<223> Made in a lab

<400> 551  
 Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala  
                   5                  10

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<210> 552
<211> 2577
<212> DNA
<213> Homo sapiens
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<400> 552						
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agtttttttat	ctatggtaga	accacccaga	gcagggggtcc	tcaactccca	gccacagac	120
tcataacagg	ccacggacta	ttatgaacca	caccacacag	gaggagggtga	gcactaggca	180
agccaaggaa	gcttcacctg	tacttacagc	cacacgccat	ggctcatatt	acagcctgaa	240
ctctgcttcc	actcagatca	gtgataacat	tagaaaactca	ttggagcacg	aacctgttg	300
tgaactgcct	atccgaagga	tctaggttgt	gtgcttcgta	tgagaatcta	atgccagatg	360
atctatcatt	gtctcacttt	gccccagat	aagaccatct	agttgcagaa	aaataagctc	420
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ttttacattc	gcctagtgat	gcttcattga	caaggctttgg	ctctgtttgag	tccaaactaa	540
ctacctgaga	ttctgagatt	ttctttcaat	ggcttctctgt	gagctagagt	ttgaaaatat	600
cttaaaatct	tgagctagag	atggaagtag	cttggaacgat	tttcattatc	atgtaaatcg	660
ggtcactcaa	ggggccaacc	acagctggga	gccactgctc	aggggaaggt	tcatatggga	720
ctttctactg	cccaaggttc	tatacaggat	ataaagggtgc	ctcacagtat	agatctggta	780
gcaaagaaga	agaaacaaac	actgatctct	ttctgccacc	cctctgacct	tttggaaact	840
ctctgaccct	ttagaacaag	octacctaat	atctgctaga	gaaaagacca	acaacggcct	900
caaaggatct	cttaccatga	aggtctcagc	taattctctgg	ctaaagatgtg	ggttccacat	960

196

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taggttctga atatgggggg aagggtcaat ttgctcattt tgtgtgtgga taaagtcagg 1020
atgcccaggg gccagagcag ggggctgctg ctttgggaac aatggctgag catataacca 1080
taggtatggg aacaaaaaac atcaaaagtca ctgtatcaat tgccatgaag actcgaggga 1140
cctgaatcta ccgattcatc ttaaggcagc aggaccagtt tgagtggcaa caatgcagca 1200
gcagaatcaa tggaaacaac agaatgattg caatgtcctt ttttttctcc tccttctgac 1260
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aggagtatct aggacatagt cccagaaga cagtacaaga ctttctgata aactggacat 1380
ttcaagrocc aaataactaa tcagaaaaat caaagatgtg atactatttt ttatcccatg 1440
cataggtgct acacttggtt caaatgaaca atgttgggat ctytatggat aaaggtotta 1500
aaagtcctga gataaagaat cctgcaccca ctggtacttc taacttgtct tgttttttgt 1560
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ctatgacatc tcacctgata tgtaagatgt aactgttata attattttaa acctcaattt 1680
agcattaact agccttttaa tgtaaacact tacacattat gaygactaga aacagcatat 1740
tctctggcgg tctgtccaga tagatcttga gaagatacat caatgttttg ctcaagtaga 1800
aggctgacta tacttgccga tccacaacat acagcaagta tgagagcagt tctaaaatga 1860
cagagatagg aacagtaata aagttattkt aaaagctaata ttgatatact ttaccaattt 1920
aacatcttgc ctgtccgtgc agaatcaaac atttacctgc actaaaagac ataagcatct 1980
tcagtgtcoa agtgttcatc tttgtaaaat accaccaagg ttaaaaggaa gggacaaaaa 2040
aaaaaaaaacc tcttatctca gtggggtatt gcatagcaga agctactaat ttgaagtcct 2100
ttgatggaca agaaacaata ttagggccac ttatctgaaa tgaacaaaga ttaagttaa 2160
gatttcatca cagcttccct agactgatat gctgtaatag aaaatcagct agggggtaaa 2220
ataaataaga gctctctgca tgctgaaagc aagtaagatt aataataatg gtaagaatag 2280
tagtcacagg agtttcagtt aatgatgcca ataagcatgt gctaggcact gaattaaatg 2340
ccacatatat ctttcttatg cgcagcaaac tttgaaggat atattctcct acttttcata 2400
tatgacaaca tatttggtgg taaataacgt tccaagggtc acacacctag caagtaagaa 2460
agttaggaat taaaccagat attgtgtgaa tctaaagcct aacttttttc tctttatcac 2520
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&lt;210&gt; 553

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 553

```

Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys
                    5                      10                      15
Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly
                    20                      25                      30
Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr
                    35                      40                      45
Glu Pro His His Thr Gly Gly Gly Glu His
                    50                      55

```

&lt;210&gt; 554

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 554

```

Leu Gln Lys Asn Lys Leu Arg Ala Ser Thr Asp Ser Thr Leu Trp Ile
                    5                      10                      15
Cys Ala Ala Glu Ala Ser Thr Lys Pro Tyr Phe Tyr Thr Cys Leu Val
                    20                      25                      30
Met Leu His Gly Gln Gly Leu Ala Leu Leu Ser Pro Thr Asn Leu Pro
                    35                      40                      45
Glu Ile Leu Arg Phe Leu Phe Asn Gly Phe Leu
                    50                      55

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197

<210> 555  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 555  
 Leu Gly Arg Phe Ser Leu Ser Cys Lys Ser Gly His Ser Arg Gly Gln  
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 Pro Gln Leu Gly Ala Thr Ala Gln Gly Lys Val His Met Gly Leu Ser  
                           20                          25                          30  
 Thr Ala Gln Gly Ser Ile Gln Asp Ile Lys Val Pro His Ser Ile Asp  
                           35                          40                          45  
 Leu Val Ala Lys Lys Lys Lys Gln Thr Leu Ile Ser Phe Cys His Pro  
                           50                          55                          60  
 Ser Asp Pro Leu Glu Leu Leu  
           65                          70

<210> 556  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 556  
 Asn His Pro Glu Gln Gly Ser Ser Thr Pro Arg Pro Gln Thr His Thr  
                           5                          10                          15  
 Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr  
                           20                          25                          30  
 Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly  
                           35                          40                          45  
 Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile  
                           50                          55                          60  
 Arg Asn Ser Leu Glu His Glu Pro Cys Cys Glu Leu Pro Ile Arg Arg  
           65                          70                          75                          80  
 Ile

<210> 557  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 557  
 Ser Leu Ser Ala Thr Pro Leu Thr Leu Trp Asn Ser Ser Asp Pro Leu  
                           5                          10                          15  
 Glu Gln Ala Tyr Leu Ile Ser Ala Arg Glu Lys Thr Asn Asn Gly Leu  
                           20                          25                          30  
 Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys  
                           35                          40                          45  
 Gly Phe His Ile Arg Phe  
           50

<210> 558  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

198

<220>  
 <221> VARIANT  
 <222> (1)...(77)  
 <223> Xaa = Any amino acid

<400> 558  
 Asn Asp Arg Asp Arg Asn Ser Asn Lys Val Ile Xaa Lys Ala Asn Leu  
                                   5                                  10                                  15  
 Ile Tyr Phe Thr Asn Leu Thr Ser Cys Leu Ser Val Gln Asn Gln Thr  
                                   20                                  25                                  30  
 Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His  
                                   35                                  40                                  45  
 Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys  
                                   50                                  55                                  60  
 Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr  
                                   65                                  70                                  75

<210> 559  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 559  
 Thr Leu Pro Pro Leu Arg Ser Val Ile Thr Leu Glu Thr His Trp Ser  
                                   5                                  10                                  15  
 Thr Asn Pro Val Val Asn Cys Leu Ser Glu Gly Ser Arg Leu Cys Ala  
                                   20                                  25                                  30  
 Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala  
                                   35                                  40                                  45  
 Pro Arg  
                                   50

<210> 560  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 560  
 Ile Gly Ser Leu Lys Gly Pro Thr Thr Ala Gly Ser His Cys Ser Gly  
                                   5                                  10                                  15  
 Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr  
                                   20                                  25                                  30  
 Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn  
                                   35                                  40                                  45  
 Thr Asp Leu Phe Leu Pro Pro Leu  
                                   50                                  55

<210> 561  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT



199

&lt;222&gt; (1)...(57)

&lt;223&gt; Xaa = Any amino acid

&lt;400&gt; 561

Val	Leu	His	Leu	Asp	Gln	Met	Asn	Asn	Val	Gly	Ile	Xaa	Met	Asp	Lys
				5					10					15	
Gly	Leu	Lys	Ser	Pro	Glu	Ile	Lys	Asn	Pro	Ala	Pro	Thr	Gly	Thr	Ser
			20					25					30		
Asn	Leu	Ser	Cys	Phe	Leu	Ser	Xaa	Phe	Trp	Leu	Met	Gln	Gly	Thr	Asn
		35					40					45			
Ser	Leu	Pro	Arg	Glu	Asn	Tyr	Leu	Asn							
		50				55									

&lt;210&gt; 562

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(59)

&lt;223&gt; Xaa = Any amino acid

&lt;400&gt; 562

Asp	Leu	Tyr	Pro	Xaa	Arg	Ser	Gln	His	Cys	Ser	Phe	Asp	Pro	Ser	Val
				5					10					15	
Ala	Pro	Met	His	Gly	Ile	Lys	Asn	Ser	Ile	Thr	Ser	Leu	Ile	Phe	Leu
			20					25					30		
Ile	Ser	Tyr	Leu	Xaa	Leu	Glu	Met	Ser	Ser	Leu	Ser	Glu	Ser	Leu	Val
		35					40					45			
Leu	Ser	Ser	Gly	Asp	Tyr	Val	Leu	Asp	Thr	Pro					
		50				55									

&lt;210&gt; 563

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 563

Cys	Phe	Leu	Phe	Pro	Tyr	Leu	Trp	Leu	Tyr	Ala	Gln	Pro	Leu	Phe	Pro
				5					10					15	
Lys	Gln	Gln	Pro	Pro	Ala	Leu	Ala	Pro	Gly	His	Pro	Asp	Phe	Ile	His
			20					25					30		
Thr	Gln	Asn	Glu	Gln	Ile	Asp	Pro	Ser	Pro	His	Ile	Gln	Asn	Leu	Met
		35					40					45			
Trp	Asn	Pro	His	Leu	Ser	Gln	Glu	Leu	Ala	Glu	Thr	Phe	Met	Val	Arg
	50					55				60					
Asp	Pro	Leu	Arg	Pro	Leu	Leu	Val	Phe	Ser	Leu	Ala	Asp	Ile	Arg	
	65				70					75					

&lt;210&gt; 564

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 564

200

Ala Cys Ser Lys Gly Ser Glu Glu Phe Gln Arg Val Arg Gly Val Ala  
                                   5                                  10                                  15  
 Glu Arg Asp Gln Cys Leu Phe Leu Leu Leu Cys Tyr Gln Ile Tyr Thr  
                                   20                                  25                                  30  
 Val Arg His Leu Tyr Ile Leu Tyr Arg Thr Leu Gly Ser Arg Lys Ser  
                                   35                                  40                                  45  
 His Met Asn Leu Pro Leu Ser Ser Gly Ser Gln Leu Trp Leu Ala Pro  
                                   50                                  55                                  60

<210> 565  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (1)...(57)  
 <223> Xaa = Any amino acid

<400> 565  
 Leu Tyr Tyr Cys Ser Tyr Leu Cys His Phe Arg Thr Ala Leu Ile Leu  
                                   5                                  10                                  15  
 Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln  
                                   20                                  25                                  30  
 Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu  
                                   35                                  40                                  45  
 Tyr Ala Val Ser Ser Xaa His Asn Val  
                                   50                                  55

<210> 566  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 566  
 Ile Leu Leu Glu Phe Phe Arg Asn Gln Arg Gly Ser Leu Asn Pro Arg  
                                   5                                  10                                  15  
 Lys Thr Val Pro Phe Ile Lys Ser Glu Gly Gly Glu Lys Lys Gly His  
                                   20                                  25                                  30  
 Cys Asn His Ser Val Val Ser Ile Asp Ser Ala Ala Ala Leu Leu Pro  
                                   35                                  40                                  45  
 Leu Lys Leu Val Leu Leu Pro  
                                   50                                  55

<210> 567  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 567  
 Tyr Ser Asp Phe Asp Val Phe Cys Ser His Thr Tyr Gly Tyr Met Leu  
                                   5                                  10                                  15  
 Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile  
                                   20                                  25                                  30  
 Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile

## 201

35 40 45  
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 50  
 <210> 568  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens  
 <400> 568  
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 Tyr Val Ala Phe Asn Ser Val Pro Ser Thr Cys Leu Leu Ala Ser Leu  
 20 25 30  
 Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr  
 35 40 45  
 Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp  
 50 55 60  
 Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu  
 65 70 75

<210> 569  
 <211> 4809  
 <212> DNA  
 <213> Homo sapiens

<400> 569  
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 ggacagatgt ccgataatcc tttttacatt ttggcatcct tgggtagctc gtcttgtagg 180  
 aatggacttg cttcaaagtg gaggcaggca gatccttcag acgggtatat ggagccctgt 240  
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202

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aaaaaaaaa

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&lt;210&gt; 570

&lt;211&gt; 951

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 570

## 203

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&lt;210&gt; 571

&lt;211&gt; 819

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 571

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&lt;210&gt; 572

&lt;211&gt; 203

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 572

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atcagggtctc atgagaactc atg
203

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&lt;210&gt; 573

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 573

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Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg
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[illegible]

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			20					25					30			
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<400> 575															
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			20					25					30		
Ser	Leu	Glu	Pro	Gly	Arg	Leu	Arg	Glu	Glu	Asn	Arg	Leu	Asn	Pro	Gly
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65					70					75					

<220>  
<221> VARIANT

205

&lt;222&gt; (1)...(68)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 576

```

Met Leu Gly Lys Ser Arg Ala Val Cys Leu Pro Ser Thr Thr Val Thr
              5              10              15
Thr Val Cys Tyr Leu Ala Ser Ser Ser Ala Ser Arg Glu Thr Ala Thr
              20              25              30
Arg Gln Ala Pro Gly Asn Trp Lys Met Xaa Ser Lys Cys His Ala Gln
              35              40              45
Leu Leu Phe Thr Phe Tyr Leu Asn His Phe Tyr Gln Ile Arg Leu Asn
              50              55              60
Pro Gly Tyr Ser
65

```

&lt;210&gt; 577

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 577

```

Met Tyr Leu Glu Asn Ser Phe Tyr Cys Gln Met Ile Leu Leu Lys Arg
              5              10              15
Cys Arg Leu Ser Lys Ile Ser Thr Gln Arg Val Val Pro Asp Gly Pro
              20              25              30
Pro Ala Pro Val Pro Gly Ser Phe Pro Met Phe Pro Arg Phe Gly Phe
              35              40              45
Arg Leu Ala Pro Pro Ala Asp Thr Pro
              50              55

```

&lt;210&gt; 578

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 578

```

Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu Leu Tyr Ile Arg His
              5              10              15
His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr
              20              25              30
Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His Ile Ala Lys Val Tyr
              35              40              45
Gln Pro His
50

```

&lt;210&gt; 579

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 579

```

Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu
              5              10              15
Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr
              20              25              30
Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His
              35              40              45
Ile Ala Lys Val Tyr Gln Pro His

```

206

50

55

<210> 580  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 580  
 Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser  
                                   5                                  10                                  15  
 Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys  
                                   20                                  25                                  30  
 Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser  
                                   35                                  40                                  45  
 His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser  
                                   50                                  55                                  60  
 Phe Ile His  
                                   65

<210> 581  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 581  
 Met Leu Glu Val Lys Phe Glu Val Ser Leu Arg Pro Thr Gly Asn Glu  
                                   5                                  10                                  15  
 Thr Ala Gly Gln Thr His Gly Thr Gln Asp Lys Gly Ser Lys Asp Ser  
                                   20                                  25                                  30  
 Thr Ala Ala Asp Ile Leu Cys Asp Ser Leu Glu Ser Ser Arg Pro Ala  
                                   35                                  40                                  45  
 Ala His Ile Leu Glu Gly Lys Met Gly Thr Met Leu Ser Ala Thr Leu  
                                   50                                  55                                  60  
 Gly Pro Ser Trp Val Thr Cys Ile Leu His Leu Cys Ser  
                                   65                                  70                                  75

<210> 582  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 582  
 Met Leu Phe Leu Gln Thr Ile Asp Thr Lys Cys Thr Gly Ile Glu Ile  
                                   5                                  10                                  15  
 Asn Arg Asn Trp Ser Lys Val Trp His Thr His Ser His Val Asp Val  
                                   20                                  25                                  30  
 Lys Leu Cys Leu Glu Phe Leu Cys Gly Val Trp Phe Gly Leu Gly Phe  
                                   35                                  40                                  45  
 Leu Gly Val  
                                   50

<210> 583  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 583  
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg



207

```

          5          10          15
Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
          20          25          30
Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
          35          40          45
Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
          50          55          60

```

<210> 584  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

```

<400> 584
Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
          5          10          15
Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
          20          25          30
Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
          35          40          45
Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
          50          55          60
Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
          65          70          75

```

<210> 585  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

```

<400> 585
Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu
          5          10          15
Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp
          20          25          30
Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu
          35          40          45
Leu Phe
          50

```

<210> 586  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

```

<400> 586
Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
          5          10          15
Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
          20          25          30
Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
          35          40          45
Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
          50          55          60

```

<210> 587  
 <211> 1408  
 <212> DNA

208

&lt;213&gt; Homo sapiens

&lt;400&gt; 587

```

ctggacactt tgcgagggct tttgctggct gctgctgctg cccgtcatgc tactcatcgt 60
agcccgcccg gtgaagctcg ctgctttccc tacctcctta agtgactgcc aaacgcccac 120
cggctggaat tgctctgggt atgatgacag agaaaatgat ctcttcctct gtgacaccaa 180
cacctgtaaa tttgatgggg aatgtttaag aattggagac actgtgactt gcgtctgtca 240
gttcaagtgc aacaatgact atgtgcctgt gtgtggctcc aatggggaga gctaccagaa 300
tgagtgttac ctgacagagg ctgcatgcaa acagcagagt gagatacttg tgggtgtcaga 360
aggatcatgt gccacagatg caggatcagg atctggagat ggagtccatg aaggctctgg 420
agaaactagt caaaaggaga catccacctg tgatatttgc cagtttggtg cagaatgtga 480
cgaagatgcc gaggatgtct ggtgtgtgtg taatattgac tgttctcaa ccaacttcaa 540
tcccctctgc gcttctgatg ggaaatctta tgataatgca tgccaaatca aagaagcatc 600
gtgtcagaaa caggagaaaa ttgaagtcat gtctttgggt cgatgtcaag ataacacaac 660
tacaactact aagtctgaag atgggcatta tgcaagaaca gattatgcag agaattgctaa 720
caaattagaa gaaagtgccg gagaacacca cataccttgt ccggaacatt acaatggctt 780
ctgcatgcat gggaagtgtg agcattctat caatatgcag gagccatctt gcagggtgtga 840
tgctggttat actggacaac actgtgaaaa aaaggactac agtgttctat acgttgttcc 900
cggtcctgta cgatttcagt atgtcttaat cgcagctgtg attggaacaa ttcagattgc 960
tgtcatctgt gtgggtgtcc tctgcatcac aaggaaatgc ccagaagca acagaattca 1020
cagacagaag caaaatacag ggcactacag ttcagacaat acaacaagag cgtccacgag 1080
gttaatctaa agggagcatg ttccacagtg gctggactac cgagagcttg gactacacaa 1140
tacagtatta tagacaaaag aataagacaa gagatctaca catgttgctt tgcatttgtg 1200
gtaatctaca ccaatgaaaa catgtactac agctatatatt gattatgtat ggatatattt 1260
gaaatagtat acattgtctt gatgtttttt ctgtaatgta aataaactat ttatatcaca 1320
caatawagtt ttttctttcc catgtatttg ttatatataa taaataactca gtgatgagaa 1380
aaaaaaaaa aaaaaaaaaa rwmgaccc 1408

```

&lt;210&gt; 588

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 588

```

Met Pro Gln Lys Gln Asn Ser Gln Thr Glu Ala Lys Tyr Arg Ala
      5              10              15
Leu Gln Phe Arg Gln Tyr Asn Lys Ser Val His Glu Val Asn Leu Lys
      20              25              30
Gly Ala Cys Phe Thr Val Ala Gly Leu Pro Arg Ala Trp Thr Thr Gln
      35              40              45
Tyr Ser Ile Ile Asp Lys Arg Ile Arg Gln Glu Ile Tyr Thr Cys Cys
      50              55              60
Leu Ala Phe Val Val Ile Tyr Thr Asn Glu Asn Met Tyr Tyr Ser Tyr
      65              70              75              80
Ile

```

&lt;210&gt; 589

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 589

```

Met Thr Met Cys Leu Cys Val Ala Pro Met Gly Arg Ala Thr Arg Met
      5              10              15
Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu
      20              25              30
Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu

```

209

		35					40					45			
Met	Glu	Ser	Met	Lys	Ala	Leu	Glu	Lys	Leu	Val	Lys	Arg	Arg	His	Pro
	50					55					60				
Pro	Val	Ile	Phe	Ala	Ser	Leu	Val	Gln	Asn	Val	Thr	Lys	Met	Pro	Arg
65					70					75					80
Met	Ser	Gly	Val	Cys	Val	Ile	Leu	Thr	Val	Leu	Lys	Pro	Thr	Ser	Ile
				85					90					95	
Pro	Ser	Ala	Leu	Leu	Met	Gly	Asn	Leu	Met	Ile	Met	His	Ala	Lys	Ser
			100					105					110		
Lys	Lys	His	Arg	Val	Arg	Asn	Arg	Arg	Lys	Leu	Lys	Ser	Cys	Leu	Trp
		115					120					125			
Val	Asp	Val	Lys	Ile	Thr	Gln	Leu	Gln	Leu	Leu	Ser	Leu	Lys	Met	Gly
	130					135					140				
Ile	Met	Gln	Glu	Gln	Ile	Met	Gln	Arg	Met	Leu	Thr	Asn			
145					150					155					

```
<210> 590
<211> 347
<212> PRT
<213> Homo sapiens
```

<400>	590														
Met	Leu	Leu	Ile	Val	Ala	Arg	Pro	Val	Lys	Leu	Ala	Ala	Phe	Pro	Thr
				5					10					15	
Ser	Leu	Ser	Asp	Cys	Gln	Thr	Pro	Thr	Gly	Trp	Asn	Cys	Ser	Gly	Tyr
			20					25					30		
Asp	Asp	Arg	Glu	Asn	Asp	Leu	Phe	Leu	Cys	Asp	Thr	Asn	Thr	Cys	Lys
		35					40					45			
Phe	Asp	Gly	Glu	Cys	Leu	Arg	Ile	Gly	Asp	Thr	Val	Thr	Cys	Val	Cys
	50					55					60				
Gln	Phe	Lys	Cys	Asn	Asn	Asp	Tyr	Val	Pro	Val	Cys	Gly	Ser	Asn	Gly
65					70						75				80
Glu	Ser	Tyr	Gln	Asn	Glu	Cys	Tyr	Leu	Arg	Gln	Ala	Ala	Cys	Lys	Gln
				85					90					95	
Gln	Ser	Glu	Ile	Leu	Val	Val	Ser	Glu	Gly	Ser	Cys	Ala	Thr	Asp	Ala
			100					105					110		
Gly	Ser	Gly	Ser	Gly	Asp	Gly	Val	His	Glu	Gly	Ser	Gly	Glu	Thr	Ser
		115					120					125			
Gln	Lys	Glu	Thr	Ser	Thr	Cys	Asp	Ile	Cys	Gln	Phe	Gly	Ala	Glu	Cys
	130					135					140				
Asp	Glu	Asp	Ala	Glu	Asp	Val	Trp	Cys	Val	Cys	Asn	Ile	Asp	Cys	Ser
145					150					155					160
Gln	Thr	Asn	Phe	Asn	Pro	Leu	Cys	Ala	Ser	Asp	Gly	Lys	Ser	Tyr	Asp
				165					170					175	
Asn	Ala	Cys	Gln	Ile	Lys	Glu	Ala	Ser	Cys	Gln	Lys	Gln	Glu	Lys	Ile
			180					185					190		
Glu	Val	Met	Ser	Leu	Gly	Arg	Cys	Gln	Asp	Asn	Thr	Thr	Thr	Thr	Thr
	195						200				205				
Lys	Ser	Glu	Asp	Gly	His	Tyr	Ala	Arg	Thr	Asp	Tyr	Ala	Glu	Asn	Ala
	210					215					220				
Asn	Lys	Leu	Glu	Glu	Ser	Ala	Arg	Glu	His	His	Ile	Pro	Cys	Pro	Glu
225					230					235					240
His	Tyr	Asn	Gly	Phe	Cys	Met	His	Gly	Lys	Cys	Glu	His	Ser	Ile	Asn
				245					250					255	
Met	Gln	Glu	Pro	Ser	Cys	Arg	Cys	Asp	Ala	Gly	Tyr	Thr	Gly	Gln	His
			260					265					270		
Cys	Glu	Lys	Lys	Asp	Tyr	Ser	Val	Leu	Tyr	Val	Val	Pro	Gly	Pro	Val

## 210

```

      275              280              285
Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile Gln Ile
      290              295              300
Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg
305              310              315              320
Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser
      325              330              335
Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
      340              345

```

&lt;210&gt; 591

&lt;211&gt; 565

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 591

```

actaaagcaa atgaacaagc tgacttgcta gtatcatctg cattcattga agcacaagaa      60
cttcatgcct tgactcatgt aaatgcaata ggattaaaaa ataaatttga tatcacatgg      120
aaacagacaa aaaatattgt acaacattgc acccagtgtc agattctaca cctggccact      180
caggaagcaa gagttaatcc cagaggtcta tgtcctaata tgttatggca aatggatgtc      240
atgcacgtac cttcatttgg aaaattgtca tttgtccatg tgacagttga tacttattca      300
catttcatat gggcaacctg ccagacagga gaaagtactt cccatgttaa aagacattta      360
ttatcttggt ttcctgtcat gggagttcca gaaaaagtta aaacagacaa tgggccaggt      420
tactgtagta aagcatttca aaaattctta aatcagtggg aaattacaca tacaatagga      480
attctctata attcccaagg acaggccata attgaaggaa ctaatagaac actcaaagct      540
caattgggta aacaaaaaaaa aaaaaa                                565

```

&lt;210&gt; 592

&lt;211&gt; 188

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 592

```

Thr Lys Ala Asn Glu Gln Ala Asp Leu Leu Val Ser Ser Ala Phe Ile
  1              5              10              15
Glu Ala Gln Glu Leu His Ala Leu Thr His Val Asn Ala Ile Gly Leu
      20              25              30
Lys Asn Lys Phe Asp Ile Thr Trp Lys Gln Thr Lys Asn Ile Val Gln
      35              40              45
His Cys Thr Gln Cys Gln Ile Leu His Leu Ala Thr Gln Glu Ala Arg
      50              55              60
Val Asn Pro Arg Gly Leu Cys Pro Asn Val Leu Trp Gln Met Asp Val
      65              70              75              80
Met His Val Pro Ser Phe Gly Lys Leu Ser Phe Val His Val Thr Val
      85              90              95
Asp Thr Tyr Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser
      100             105             110
Thr Ser His Val Lys Arg His Leu Leu Ser Cys Phe Pro Val Met Gly
      115             120             125
Val Pro Glu Lys Val Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys
      130             135             140
Ala Phe Gln Lys Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly
      145             150             155             160
Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Gly Thr Asn Arg
      165             170             175
Thr Leu Lys Ala Gln Leu Val Lys Gln Lys Lys Lys
      180             185

```

211

<210> 593  
 <211> 271  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(271)  
 <223> n = A,T,C or G

<400> 593  
 acttttatgtt cnagtgcana aanccncctg gattgccacc ntactctcag ggctgtgant 60  
 tgtgcnccca nagcaacctg ggcacgcggg gacagggggg ccnacaattg agggagcggg 120  
 gtccctagct ggggtctata catgncnggg naagggcngc tgagtnccat nagcaaagga 180  
 nctagnatnt gcgggggtgc ggcctggggc taccctttta agcatccntn gatccactcc 240  
 angaancng gggtagncag gtttnccaac a 271

<210> 594  
 <211> 376  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(376)  
 <223> n = A,T,C or G

<400> 594  
 cctttggggg nggggggaac ctttaccatt gtnccccttt atttcatttg gttnggggttc 60  
 gcgcctcnn gggccaacaa agttatcgtn nttgaagaga anattttttt ggnttngncc 120  
 cgattaagcg ncaaatgtgt agcaaaaangc cgtgccactt gtggcgtagc tncgtcgggt 180  
 cgattcgacg acaaggcgtn gcgcgntanc gttagtctcn aatngaccn gtggcatgag 240  
 cccacgangg nttcgtgtcg tcacatggnc tctagacata acgcncccn ttttttncag 300  
 agggggntgc cgcccttagg gaggnagggg tggggacact agccaancca nantctnacc 360  
 ccattgaaga aaagg 376

<210> 595  
 <211> 242  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(242)  
 <223> n = A,T,C or G

<400> 595  
 agnctgctgn tcgtnccctn tatgtggctt catnntgagg acaanagtng cactgaggct 60  
 tgnnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tgnaangggg 120  
 atgccangag cangtgcacc agtcccaact angagnccn ggcatgntac atcttcttcc 180  
 acccctnaaa ntttgngcta caangnccat ttttcttttt ctcttaaggg ncnctggct 240  
 tc 242

<210> 596  
 <211> 535  
 <212> DNA  
 <213> Homo sapien

212

<220>  
 <221> misc\_feature  
 <222> (1)...(535)  
 <223> n = A,T,C or G

<400> 596  
 accagttgga tactgctaaa nagatattta tgcagcctca tatgttaagt cgtatatattt 60  
 gaaagctttt taaatttttt cttaaagaag attttagatg cttatcactg agtaccagag 120  
 ggatgtaggc tgatgccctt atcaacaaag tcagggactg tggcacacaa ggattgacta 180  
 ctgcagacac ggccacaatg ctacctctag agggcctgaa tccccctgcc ctctctgggtg 240  
 gggagaaggg ctggcagagc cattagcatg ggctccggcc aatcctggcc actttgacac 300  
 tcctggtgct gacccagggt cctggaggaa gggatgaggt gggcagtaga gatgctcagg 360  
 gcagtggccc ctttccatcc aacttggaa tatttcagta tttaccacc aattcagcca 420  
 ttcccttggtg cgctggctga acatcagccc tgctccaggt ctcatgttcc cctttgtaaa 480  
 gggaaagctc tggattcagg gagtgatgaa gaggtcatca tggctcttgag aattc 535

<210> 597  
 <211> 257  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(257)  
 <223> n = A,T,C or G

<400> 597  
 tttcnatacc caaaantacc ccatattang accanacatt tgtctnggaa aaattaccat 60  
 tntntaacnt ttggggccacc tgagannaaa tgggtgtaat ncatgataag atggancagn 120  
 attnctctta agatnngatn agaccccgtt tttcacggaa catatccaag naccacaatag 180  
 gnaacaagcc acgggnggag tcacaaacat atattcttta ctctcataat ccgtnnccaca 240  
 naactnttgn acttgac 257

<210> 598  
 <211> 222  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(222)  
 <223> n = A,T,C or G

<400> 598  
 nntggntacc gtcnaaactt nncttggtac ccgagctcgg atccactagt ccagtgtgggt 60  
 ggaattccat tgtgttgggc tataagctgt aatagtggag ncgtgctngg ttcattgcan 120  
 nagnccctcc gcanncacnc ttggnacaac ctgtgagnag gcnataaatt attcacataa 180  
 tcatcactgc atgaanctga ctcaaacgca tccacntaca cc 222

<210> 599  
 <211> 238  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(238)

213

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 599

gcatgacatc	ancgatgtnt	ttggnnacct	ganattngct	aaaactngng	natgccgggn	60
atgnaggttt	ggtantgatc	tatgcactca	catctcatgg	ggacgtttca	tgtggagtgn	120
tcgacaangt	tgctgnancn	gagaagtgat	gatctcagtt	gaaaggggtca	tgtgaataca	180
cnttacactt	gaaaaagaag	cacattggga	atatcacgaa	acgnccacca	acatcctg	238

&lt;210&gt; 600

&lt;211&gt; 232

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(232)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 600

cgaactat	agactaccta	ggaaaattat	tttagtatca	gaagaatatc	aggggtgtag	60
tactcatcag	agctaaatga	gagcgcttta	aaaatgttag	tttgtcttcc	gccatttcta	120
cagaaagctg	caatttcagg	ttttcaacct	aataggtgat	atttaanaaa	aaaaaaaagc	180
aatcgcaaat	agccccactg	cttttacaaa	tcattttttc	cccaacacaa	tg	232

&lt;210&gt; 601

&lt;211&gt; 547

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(547)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 601

cattgtgttg	ggaaaaaat	gatttgtata	agcagtgggg	ctatttgoga	ttgctttttt	60
tttttcttaa	atatcaccta	ttaggttgaa	aacctgaaat	tgcagctttc	tgtagaaatg	120
gcggaagaca	aactaacatt	tttaaagcgc	tctcatttag	ctctgatgag	tactacaccc	180
ctnatattct	tctgatacta	aaataatttt	cctagtgtag	tctaaacttt	tttaaaaaga	240
catgtaatcc	gcggagttag	taactcaaaa	cgagtgcata	tnggaagtat	cgcagccggt	300
nctggatnaa	attcccagct	tgctngcttg	ctnagccggg	gggcggtnaa	aaaaacatct	360
gcagcccngg	ggnaaaaacc	ttcgcatgtg	tcttacgtgt	ttacggtatt	ttattttccct	420
nnagcaaggc	nggganttgg	ggactcgaaa	tggtacagtt	gggctgggga	tcgcccttgt	480
tacataaaaag	ncgtccagaa	gagggacggt	tacaggcnng	ganctccaaa	ggtcagtcct	540
tgccatt						547

&lt;210&gt; 602

&lt;211&gt; 826

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(826)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 602

cgggggggnt	tacgtctctc	tgagcgcttt	tattgtacca	gggcgatccc	agcccaactg	60
------------	------------	------------	------------	------------	------------	----

214

taccattcga	gtccctactc	ctgccttgct	ctagggaaat	aaaataacgt	aaacacgtaa	120
gaacaatgcg	aaagcgtttt	cttccctagg	ctgcagattg	tcttcttcac	cgccccctgct	180
tagctagcta	gctagctggg	aatttaaatcc	agaaacggct	tgcgatacct	cctagatgca	240
ctcgttttga	gttacaaact	ccgcggatta	catgtctttt	taaaaaagtt	tagactacac	300
tagggaaaaat	tatttttagta	tcagaagaat	atcaggggggt	gtagtactca	tcagagctna	360
atgagagcgc	tttaaaaaatg	ttagttttgtc	ttccgccatt	tctacagaaa	gctgcaattt	420
caggtttttca	ncctaataagg	tgatatntaa	gaaaaaaaaa	acaatcgcan	atagcccact	480
gctttttacaa	atcattttttc	tcttctagggt	atagcctgtc	aggtggccta	atgtattttt	540
gacatctcta	ggaatttttaa	tagaccagaa	atgggtgccca	gagatatgcc	tgcactaatc	600
ttaagtgggg	atttatgtat	ttctcaanca	agtgattaaa	gcaaaactag	gcacgaatga	660
aatcaagatc	tttaggccag	aaatcatgaa	nanttttana	attattttan	gaatctgtgg	720
cttctcttct	taaaatngaa	aaaaaaattg	tttaaacccta	naaggtctga	atacccaagc	780
nccctgaacn	anagaacaan	gccggagcac	cccctcccaa	atcccc		826

&lt;210&gt; 603

&lt;211&gt; 817

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(817)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 603

nnangacttt	tgtggntntta	tacaattntt	ttttctatitt	ctatgaagag	aaagccacag	60
agtccataaaa	taattctaaa	actcatcatg	actttcttgc	ctaaaagatc	ttgatttcaa	120
tcgtgcctag	ttttgcttta	atcacttgct	tgagaaatac	ataaatcccc	acttaagatt	180
agtgcaggca	tatctctggc	acccatttct	ggttctatta	aaattcctag	agatgtcaaa	240
aattacatta	ggccacctga	caggctatac	ctagaagaga	aaaaatgatt	tgtaaaagca	300
gtggggctat	ttgcgattgc	tttttttttt	tcttaaatat	cacctattag	gttgaaaacc	360
tgaaattgca	gctttctgta	gaaatggcgg	aagacaaact	aacattttta	aagcgctctc	420
atttagctct	gatgagtact	acaccctga	tattcttctg	atactaaaat	aattttccta	480
gtgtagtcta	aactttttta	aaaagacatg	taatccgcgg	agtttgtaac	tcaaaacgag	540
tgcatctagg	aggtatcgca	agccgtttct	ggattaaatt	cccagctagc	ttgcttgctt	600
agcagggggc	ggnaaanaag	acatctgcag	cctaggggaag	aaaaccttct	gcattgttct	660
tacgtgttta	cgttattttta	tttcctanaa	caaggcngaa	ttgggactcg	aatggttcag	720
ttgggggtgg	ggatcccctg	gtncataaaa	ngtcanaaag	anggtacagg	cggaaacncca	780
agggctcgtcc	tgcatttana	ctcggaattt	tggtgcc			817

&lt;210&gt; 604

&lt;211&gt; 694

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(694)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 604

cttttcaaatt	cattttttnct	cttctaggta	tancctgtca	ggtggcctaa	tgtaattttt	60
gacatctcta	ngaattttta	tagaaccaga	aatgggtgcc	agagatatgc	ctgcactaat	120
cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa	agcaaaacta	ggcacgattg	180
aaatcaagat	cttttaggca	anaaagtcat	gatgagtttt	agaattattt	taggactctg	240
tggttttctc	ttcatagaaa	tagaaaaaaa	aattgtataa	aaccacaaaa	ggtcctgaat	300
agccaaagca	acactganca	aaaagaacan	agcagggaag	caacacacta	ccngaattca	360
aattatacta	ccagggtgta	gtaaccaaaa	cagcatttcta	ttggcataaa	atagacacca	420



## 215

agaccaatgg	ancagaataa	agaacccccac	aaataaatcc	atatatntac	cgccanctga	480
ttatcaataa	cnaacaccaa	gaacatatnt	taagggacnt	nctattcaat	aantagtgt	540
ggnaaaaact	gggaaatcca	tatgcagaaa	naatgaaact	agaccctat	ccctcaccat	600
acgcaaannt	caacttcgga	atgggattac	aaaacttaag	acattccaac	ccaagaaact	660
atnaaancta	ctattaagaa	aacagatcnc	nccc			694

&lt;210&gt; 605

&lt;211&gt; 678

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(678)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 605

taaaaatcta	gactacacta	ggaaattatt	ttantatcag	aagaatatca	ggggtgtagt	60
actcatcana	gctaaatgag	agcgctttaa	aaatgttagt	ttgtcttccg	ccatttctac	120
agaaaagctgc	aattttcaggt	tttcaaccta	ataggtgata	tttaagaaaa	aaaaaaagca	180
atcgcaataa	gccccactgc	ttttacaaat	cattttttct	cttctaggta	tagcctgtca	240
ggtggcctaa	tgtaattttt	gacatctcta	ggaattttta	tagaaccaga	aatgggtgcc	300
agagatatgc	ctgcactaat	cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa	360
agcaaaaacta	ggcacgattg	aatcaanat	cttttaggca	agaaagtcac	gatgagtttt	420
anaattattt	taggactctg	tggctttctc	ttcatagaaa	tagaaaaaaa	aaattgtata	480
aaaaccacaa	aaggtcctga	atagcccaaa	gcaacactga	acaaaangaa	caaagcagga	540
agcaacacac	taccggaatt	caattatact	accaaggtgt	antaaccaa	acagcattct	600
attgggcata	aaatagacca	aagaccagt	ggaaacagaa	taaagaancc	caaaataaat	660
cctatatatta	cngccnc					678

&lt;210&gt; 606

&lt;211&gt; 263

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(263)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 606

gtgggggtcng	cancagccaa	ctcagcttcc	tttcgggctt	tgtagcaga	cggatcatcc	60
tctagtccac	tgtgntcaaa	ttccattgtg	tggggggcnc	tcgcctcggc	canagatctg	120
agtgancana	cntgtcccca	ctgaggtgcc	ccacagcngn	ttgtnttcag	cangggctna	180
caactcgacc	ggcagcgan	ggctggcaga	antgngcgcc	tnnctcattc	ctacgcngtn	240
ngccgcagga	aggangacag	gcc				263

&lt;210&gt; 607

&lt;211&gt; 22

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 607

ccatgtgggt cccggttgtc tt

22

## 216

<210> 608  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 608  
gataggggtg ctcaggggtt gg 22

<210> 609  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 609  
gctggacagg gggcaaaagc tggggcagtg aaccatgtgc 40

<210> 610  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 610  
ccttgtccag atagcccagt agctgac 27

<210> 611  
<211> 46  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 611  
gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc 46

<210> 612  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 612  
gcacatgggt cactgcccc gcttttgccc cctgtccagc 40

<210> 613  
<211> 38  
<212> DNA

217

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 613

gccgctcgag ttagaattcg gggttggcca cgatgggtg

38

&lt;210&gt; 614

&lt;211&gt; 53

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 614

cggcgggcat atgcatcacc atcaccatca catcataaac ggcgaggact gca

53

&lt;210&gt; 615

&lt;211&gt; 46

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 615

gcactcccag cctccacaaa tactggcctg gacgggtttc tctatc

46

&lt;210&gt; 616

&lt;211&gt; 1350

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 616

atgcatcacc	atcaccatca	catcataaac	ggcgaggact	gcagcccgca	ctcgcagccc	60
tggcaggcgg	cactgggtcat	ggaaaacgaa	ttgttctgct	cgggcgtcct	ggtgcatccg	120
cagtgggtgc	tgtcagccgc	acactgtttc	cagaactcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
cggcacccag	agtacaacag	acccttgctc	gctaaccgac	tcatgctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcggggaact	cttgccctcgt	ttctggctgg	ggtctgctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcgggtggtg	tctgaggagg	tctgcagtaa	gctctatgac	480
ccgctgtacc	accccagcat	gttctgcgcc	ggcggagggc	aagaccagaa	ggactcctgc	540
aacgggtgact	ctggggggcc	cctgatctgc	aacgggtact	tgcagggcct	tgtgtctttc	600
ggaaaagccc	cgtgtggcca	agttggcgtg	ccagggtgtc	acaccaacct	ctgcaaattc	660
actgagtgga	tagagaaaac	cgtccaggcc	agtattgtgg	gaggctggga	gtgcgagaag	720
cattcccaac	cctggcaggt	gcttgtggcc	tctcgtggca	gggcagtctg	cggcgggtgt	780
ctgggtgcacc	cccagtgggt	cctcacagct	gcccactgca	tcaggaacaa	aagcgtgac	840
ttgctgggtc	ggcacagcct	gtttcatcct	gaagacacag	gccagggtatt	tcaggtcagc	900
cacagcttcc	cacaccgct	ctacgatatg	agcctcctga	agaatcgatt	cctcaggcca	960
ggtgatgact	ccagccacga	cctcatgctg	ctccgcctgt	cagagcctgc	cgagctcacg	1020
gatgctgtga	aggtcatgga	cctgcccacc	caggagccag	cactggggac	cacctgctac	1080
gcctcaggct	ggggcagcat	tgaaccagag	gagttcttga	ccccaagaa	acttcagtgt	1140
gtggacctcc	atgttatttc	caatgacgtg	tgtgcgcaag	ttcacccctca	gaaggtgacc	1200
aagttcatgc	tgtgtgctgg	acgctggaca	gggggcaaaa	gctggggcag	tgaacctgt	1260
gccctgcccg	aaaggccctc	cctgtacacc	aaggtggtgc	attaccggaa	gtggatcaag	1320

gacaccatcg tggccaaccc cgaattctaa

1350

<210> 617

&lt;211&gt; 449.

&lt;212&gt; PRT

<213> Homo sapien

<400> 617

Met	His	His	His	His	His	His	Ile	Ile	Asn	Gly	Glu	Asp	Cys	Ser	Pro
1				5					10					15	
His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu	Val	Met	Glu	Asn	Glu	Leu	Phe
			20					25					30		
Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val	Leu	Ser	Ala	Ala	His
		35					40					45			
Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu	Gly	Leu	His	Ser	Leu	Glu
	50					55					60				
Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	Val	Glu	Ala	Ser	Leu	Ser	Val
65					70					75					80
Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala	Asn	Asp	Leu	Met	Leu
				85					90					95	
Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu	Ser	Asp	Thr	Ile	Arg	Ser	Ile
			100					105					110		
Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala	Gly	Asn	Ser	Cys	Leu	Val	Ser
		115					120					125			
Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg	Met	Pro	Thr	Val	Leu	Gln	Cys
	130					135					140				
Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu	Val	Cys	Ser	Lys	Leu	Tyr	Asp
145					150					155					160
Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys	Ala	Gly	Gly	Gly	Gln	Asp	Gln
				165					170					175	
Lys	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Ile	Cys	Asn	Gly
			180					185					190		
Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly	Lys	Ala	Pro	Cys	Gly	Gln	Val
		195					200					205			
Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu	Cys	Lys	Phe	Thr	Glu	Trp	Ile
	210					215					220				
Glu	Lys	Thr	Val	Gln	Ala	Ser	Ile	Val	Gly	Gly	Trp	Glu	Cys	Glu	Lys
225					230					235					240
His	Ser	Gln	Pro	Trp	Gln	Val	Leu	Val	Ala	Ser	Arg	Gly	Arg	Ala	Val
				245					250					255	
Cys	Gly	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val	Leu	Thr	Ala	Ala	His
			260					265					270		
Cys	Ile	Arg	Asn	Lys	Ser	Val	Ile	Leu	Leu	Gly	Arg	His	Ser	Leu	Phe
		275					280					285			
His	Pro	Glu	Asp	Thr	Gly	Gln	Val	Phe	Gln	Val	Ser	His	Ser	Phe	Pro
	290					295					300				
His	Pro	Leu	Tyr	Asp	Met	Ser	Leu	Leu	Lys	Asn	Arg	Phe	Leu	Arg	Pro
305					310					315					320
Gly	Asp	Asp	Ser	Ser	His	Asp	Leu	Met	Leu	Leu	Arg	Leu	Ser	Glu	Pro
				325					330					335	
Ala	Glu	Leu	Thr	Asp	Ala	Val	Lys	Val	Met	Asp	Leu	Pro	Thr	Gln	Glu
			340					345						350	

219

Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Trp Gly  
                             405                            410                            415  
 Ser Glu Pro Cys Ala Leu Pro Glu Arg Pro Ser Leu Tyr Thr Lys Val  
                             420                            425                            430  
 Val His Tyr Arg Lys Trp Ile Lys Asp Thr Ile Val Ala Asn Pro Glu  
                             435                            440                            445  
 Phe

<210> 618  
 <211> 385  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(385)  
 <223> n = A,T,C or G

<400> 618  
 ctgtgctgag aacccaaaagc tatgancact gctttttccaa atgtccataa naccaacatt 60  
 tttatcacta ccaccatcac ctgggagctc nttagaaagc tagtctcccg ggcaccaccc 120  
 tggcctactg aacctaattgt gcatttaaca agattnacgt ngaaatctgc aaagcacagg 180  
 ggongataac agtaccacct gntctgggtc ctanccccc gacccttaca gtctaactgg 240  
 gacacaaggg cttnaaatca aattgcctat cattaagata tacaanganc ntgagaaact 300  
 gctncactta tntattaagg ngctctaaga cttagaaacn aaangcantg ctgagangat 360  
 tcaaatatga ngggggncac tttnc 385

<210> 619  
 <211> 869  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(869)  
 <223> n = A,T,C or G

<400> 619  
 gatatcccg gaattcgcgc ccgcgtcgac ctctacttgt ttagacataa atgcagtcta 60  
 gcattaaaga tccttttaaaa aaatgttttc ccaatgggta aaagacaagc tcaaataaat 120  
 gaactctcat acatatgcca aaattgatga gtagataaat atttcagtag gtagttacta 180  
 gctttctgtg tatgagtaaa catatgggag aaatttataa cactaaagta gactcaatga 240  
 aagcatagta tcctatgtat tcgtttttca gaaatgtcta atgaaggaag gaaacaatga 300  
 atgaatgccc ttattcctct tagagtgtcg ggacatgggt ttgcctgaaa acttcatgtg 360  
 aattttatat tttgtacac attacaccca tcttagactt atacgtataa gacataaggc 420  
 atatccttatg tcctacatgt ataataatct aagcagaaca aaaaataacg aaatattttc 480  
 ttccccaaat ttttgagaca gatggatttt ccggaagat gtgttttagct tttaatcctg 540  
 tgggttttgtg taccacctgg cacactagag tgttgctcta attcagttag ttgtaactct 600  
 ggggtgaacag tggaataact aggggtacatt ttaaaaatgc taatgctcgg gcctcgctga 660  
 agaccaaatt aattggaatc tctgnnggng gnattgatct ttttataatc tttctanang 720  
 attctaattg gcttccaggg atgaaaacn ctgntggagc tnggaacctt cctttagttt 780  
 ggagaaaccc cgatgagggt ntnttaggcn ccgcctnttt ttggcctggg cttccccctt 840  
 tatntntttt tggaanggnc cnaattttt 869

<210> 620  
 <211> 339  
 <212> DNA

220

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(339)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 620

gngcgggcct	cnccgtgctt	gctctcgctg	cgcagcctct	ttttccacca	gctgtaggan	60
aagcccggaag	accactggtc	ccccgggtag	cccaagtacc	actggtcctc	ctggctcctg	120
acgctncggg	tcttcctcgt	ggcgtagact	gccagcttcg	gagaccctc	agccctccc	180
cgcttttctc	caccccagga	ggccatcagt	agcgagctac	tgctcggcc	acaacctccc	240
agcangatag	cccgcggtt	ccaatctgcg	aaaggaggac	cgccnagccc	gaaatgcna	300
gcccagcnat	cactgccacg	ccgagccnag	cgctcgtgc			339

&lt;210&gt; 621

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(267)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 621

ggggngcatg	gtcccnggta	gccaagtaca	tggtcctcct	ggctcctgac	gctacgggtc	60
ttcctcgtgg	cgtagactgc	cagcttggga	gacccctcag	ccctccccg	cttttctcca	120
cccaggagg	ccatcagtag	cgagctactg	cctcggccac	aacctcccag	caggatngcc	180
cgcggtttcc	aatctgcgaa	aggaggaccg	ccnagccaga	aatgccnagc	cnagcgatca	240
ctgccacgcc	nagccnagcg	ctcgtgc				267

&lt;210&gt; 622

&lt;211&gt; 847

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(847)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 622

cttangntgt	cgactgacgt	catgcatgan	ttaaagcaga	ggtttggtga	aatttatgaa	60
aaatacaaaa	ttccggcttg	tcttgaggaa	gagccactac	ttgataactc	tacaagagga	120
acagatgtga	aggatattcc	ctttaatttg	acaaataaca	tacctgggtg	tgaggaagaa	180
gatgcatctg	aaatatctgt	ctcagtggta	ttcgagacat	ttcctgaaca	aaaagaaccc	240
agtctcaaaa	atatcatcca	tcatactat	catccgtact	ctgggtccca	ggaacatggt	300
tgccagtcac	cttctaagct	tcatttacat	gaaaataaat	tagactgoga	caatgataac	360
aaactaggca	ttggacatat	ttttagtaca	gataacaact	ttcataatga	tgcaagcact	420
aagaaagcaa	ggaaccacga	agtggttacg	gttgaaatga	aagaagacca	agagtttgat	480
ttgcaaatga	caaaaaatat	gaacccaaat	agtgacagtg	gcagtacaaa	taactataaa	540
agcctgaaac	ctaaattaga	aaatctgagt	tctttaccac	cagattctga	cagaacatca	600
ggaagtatat	ctacatgaag	aattacagca	agacatgcca	aaagtttaag	aatgangtca	660
acacattaga	aanaagantt	ctgggctttg	aagaaagaaa	atgttccact	tcataaagaa	720
ggttgaaaga	agaatgggag	agcccngaan	tttttgcccn	gaaattttcg	ggaaccctac	780
tggtatgggc	nactggttgg	ccatgaatga	ataatggact	aatcnnccaa	ttcctnngga	840
aggaat						847

221

<210> 623  
 <211> 681  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(681)  
 <223> n = A,T,C or G

<400> 623  
 aaaactgtac tcgcgcgctg catgtcgaca ctagtggatc caaagaatcg gcacgagcga 60  
 aaangctcan gcagcccggc tggccgcgcg cgctcctccc cccaggaaag ccaangtgga 120  
 ngctgatgtg gctgcangag ctogtttcac agccctctcan gtgganctgg ttgggcccgcg 180  
 gctgccangg gcggaagtgg gtgtccccc angtctcagccc caaggctgcc cctcacaaag 240  
 cactgggtgg ttgcctccac tgccaccttg ggctccgaac ccgctcccct gctgtggang 300  
 cccaccgtgg gaatccaggt ccccaggtgg actgcctgcc ttgccctcac tgcccactct 360  
 gcccacactt ccctgcctag anaccgggaa ggggctgtgt cgggtantggg gccacactgg 420  
 atgtggcagc accgactgtg ggggtggacc tggccttgcc ggggtgcaaaa gtggggggccc 480  
 ngggaaaagc acctgaagtg gcctgaaaa atccccctt aatttttccc caatttgggg 540  
 ctcaacaaa aggaaattgc tgaagccaan ggtaccaagg tcacccttaa ggccagggtg 600  
 aaaaggtccc aaaattccaa tccccacnt ttgggcttnc ctcttggaac cccggccccc 660  
 tctcntgaan ttttaaaaaa n 681

<210> 624  
 <211> 661  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(661)  
 <223> n = A,T,C or G

<400> 624  
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 aaacacaact atattttgaa gattttctat ctgcactcaa ggacactttc cacnccggtg 180  
 ttgttacctt ttggtcttgt ctctgaacat gaaattnatc tcaagggtat ngatttctgg 240  
 acctcctatt cctgctatgg gtttgatatt tcttgggctc caggggccact gttgcattgg 300  
 gntgacagnt acctcctagc ccatancctc ctatcttggg aaacaaacct aacaactacg 360  
 tgtaccttcc atagatctct gattgagtct cagtatnccg ttgctcatgg gcgattcact 420  
 tgaatccgtn attgggtgca acaatcctga ctcatggggn aatggatcct atcacgttcc 480  
 cctgattngc aacccctgta tacatanatc taatcgcata gaactagcn tnggntatgc 540  
 gcggctacgc tatcagggnt tgntaactat ngcatggcta cgaancctga tcatgatcna 600  
 gggctcatgga ctcttatcag gggggttggg ccgngcttct ttttcnnacc ttggtaaaac 660  
 c 661

<210> 625  
 <211> 181  
 <212> DNA  
 <213> Homo sapien

<400> 625  
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 tgtccaagga gagcaggggt ctccctgtgaa aaaaagggtg ggaaatgttt gagagtaaaa 120  
 aatacaaaaat tcaaccgggtc gaaaatacac cactccattc agtgctctac ccccataagc 180

222

c 181

<210> 626  
 <211> 181  
 <212> DNA  
 <213> Homo sapien

<400> 626  
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 tgtccaagga gagcagggtt ctctgtgaa aaaaagggtgg ggaaatgttt gagagtaaaa 120  
 aatacaaaat tcaaccggtc gaaaatacac cactccattc agtgctctac ccccataagc 180  
 c 181

<210> 627  
 <211> 813  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(813)  
 <223> n = A,T,C or G

<400> 627  
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 gtggcacagg atgttaaaaa aattctcctg tccttaagga gttactgcta tttgagtaat 180  
 gtgccacttc cctacatagc cttctatgca gaaatgctat atttccactt cacaaccag 240  
 aacgtgcatt ttatttttaca tttagaggag gaacaaacaa ccagaaggca aaaactggtg 300  
 cattatTTTT tgcaattctc ttggaaagag ttcgTTTTta acttctgctc agacagcaca 360  
 caactactgg gaatatatTT taatttcaaa tctgatgtgt gacatctggt aactcattta 420  
 ttgctaataga agttttcaca ggaagcagca gtcaccagta gctcatctta ttttccagtt 480  
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 atgtaatact caaaaggaat tctcagactg gcgaaacagc tggnaacag ctntcacagg 720  
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 gtnccattn nttaccaatt gtnccgggaa ana 813

<210> 628  
 <211> 646  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(646)  
 <223> n = A,T,C or G

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 agactacctt agaggaataa aggaaaaaag cagaggagga agagtggtag aaggagtcag 180  
 aagaaaccca cacgtcgttc tgaacctgga gccttatcaa aaaggctctag ataaacgata 240  
 gcgatctcga tatcgagctc aagaggtagg tttagagact tctcgtcctc gagagcgaaa 300  
 tggaaatctt cgacgacgat aagaagttaa agtgtagagg gtgcttgagg agcgcgtgga 360  
 aggattctcg ggagggaccc atcgacgtag agacttgaag gcctactaag gtccacaaga 420  
 agccccggctc tttctccgaa tggtcggagc gtacagtatg cgacgtcgat cggcagacaa 480



223

gctggcggtgta	gactcgaagt	gttcggggcga	atcgacttat	aatagtcgcg	cgctagtaac	540
gtaggaacac	gaagagtagt	cgaaagaaaa	cgtttagtga	gggaaaagat	tagggaaaaa	600
ggagaggcctt	aataactaag	acacttggag	cctaggccaa	cgcgaa		646

&lt;210&gt; 629

&lt;211&gt; 617

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(617)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 629

gccccnccc	ccctcctnng	gcttatnngg	acagaccac	gtagtactct	aaatcttctc	60
ctacgccgga	caacggaccc	tataccaatt	cgaatcttgg	acactccgac	cgccggattc	120
tcttccccct	tcggcttccc	ctttctgtcg	gtacccctcc	ctagtcgtct	cctacacctt	180
cgtaccgtcg	atatatagtc	gccgcggact	agcctattta	ggtgtcctag	actcgttatt	240
gataccactca	ttagtctagt	actatgcgtc	acgtatctta	gttgccctaag	aggagatta	300
aatcctccac	aagttccgac	gaattcctgg	actctcgtac	tagcaaacctt	tcttatgagg	360
cttccttgta	tatcttctgg	atgtttctcg	tgtcccggtc	ctccgctact	actagagctc	420
cttgccctat	ctctagaagt	agaggactct	cgggttcggt	ctccaaatct	agcgctagag	480
ctatcgctac	ccgctcgatt	ccccagcgg	aatcttgaaa	cctgaggtag	tacacaaacc	540
ctccncatct	tcctcgggtt	gtcccttctt	ctcatcccc	cttcccgcct	tctcggaan	600
gaatctactt	tancttc					617

&lt;210&gt; 630

&lt;211&gt; 644

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(644)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 630

cnntcggcnt	gggttttntt	ctgagnnncc	ccccccccc	cccccccaa	cttacaccca	60
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taaagtcctc	tacctcgga	gtagagaatt	cggtatttaa	attcagggtt	agaggctcgc	180
tcgttagatt	tatagttag	gtttagaatc	ggaaaccttc	gatcttctct	agaagggtaa	240
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gttcggtagt	tatcgaaggc	actoctctct	aggctaggct	tttctcagtc	ttagtactcc	420
gggaccgtcg	tcgcanaaat	atcgatggac	ggtaggtatc	tccgcgttac	gcgtcgggct	480
agggatatag	agcgaattat	cggcgagagg	cggtcgctan	gaatcggtat	caatatgntg	540
ttctttaccc	tacggatatc	ggcagaaaac	ataaaacctt	ctnaccangg	ataagggtat	600
atcggacccc	taaaataaca	gtaacattta	gantactagt	accc		644

&lt;210&gt; 631

&lt;211&gt; 526

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(526)

224

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 631

ccntcgggtt	gggttttttt	ctgagcccc	cccccccccc	cccccccccc	ccccccgggc	60
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atcccnogta	tcgngtaggt	cgtaccggt	acggngatc	ncnacgattn	ttcgggtcgt	180
cnccttaan	acggnccgt	agcnccgga	anaaatacta	cgagngactc	taatntagca	240
anaccggcgg	tcnattanta	gcatccttag	tcttccaatg	ncgnggattn	ngaatacctn	300
naagttatcg	ggtagaacgg	gtcccgggtcc	cccgccctct	ttncaatata	cgccgggtac	360
aaantcgggt	tctaaattcc	ncacgaattt	ngncggcaac	attcncgggn	ccttattanc	420
cntttccaac	cccgatacnc	nagctcgatc	gggctttanc	gaatccgggg	tcnccccga	480
ngantccggg	tcctttgagt	ngctctagga	cggttacgac	ggagga		526

&lt;210&gt; 632

&lt;211&gt; 647

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(647)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 632

tttggngggc	ggngctcat	ttgggtggac	tttttgggtc	gtaggaacct	ggtatgaggg	60
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cgtctttatc	ttacgaggca	ccctgatatt	gttgcgcttt	ggtttggttg	tggagagttt	180
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gtgagcttga	gaggggagtt	gtgggtgttg	cgggcggagt	aggaggggtt	ggagcaccgg	300
gattggggaga	tatagaatca	taagtgttag	gtataggctc	attgagcgag	ttcgtggaat	360
tcgtgtgggtc	atcataatta	gagtgaggat	gggctctata	tttcttagag	gaogcacggt	420
cgtgattcgg	ggtttgatgg	gtgttcttct	tgtgggcacg	attagcttgt	tcatgatggt	480
aaggaccata	ctgtttcgaa	tgaggattcg	tgtcttcgga	ttgttggtga	tattgtggnc	540
tanactattt	agtgtaaagg	ggaggtgggt	tgccgtgggtg	gagtatccga	nnttcattcg	600
ganggtatgc	gtgcggagcg	gtcctttagt	acattccgga	aaaatgg		647

&lt;210&gt; 633

&lt;211&gt; 630

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(630)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 633

tccttcgggt	tgggtttttt	tctgaccccc	cccccccccc	ccccctcgga	aggcctctag	60
gtcccccacc	gtctctctaa	tcctcaggaa	ccgatccacc	caaccaactt	actaatgtcc	120
tacagtaaac	acccgagaat	ataaacccac	acctaggcct	ccaatcctac	cagggaagca	180
agaagccgta	gtctagcgta	ttacgaaccc	gagatagaga	cggagatact	tagttttatt	240
ctctcggaat	aggaaagacg	actggggagg	gaatataggc	tagcgcgggg	ataggggcta	300
tggcggatat	gggggcgggt	cgtctcttta	ttcttctata	ccacgtcaat	aggaaatgtag	360
atatacctag	atgttcccgt	agaaagagac	gttagaggtc	tccgaagcta	taaaggagag	420
gcgcgaagaa	acttcgtact	ctagctttat	ataggtagtc	gctctagtcc	cataagcgac	480
gagagatcta	ctagatttcg	gtatcgccgt	cgtatgtatt	cgaaatagtc	ttcttcccct	540
tttcgatctc	ctctctatac	tacatggnga	ttatagtcnt	aagatagtca	ggatattagg	600
atattagtta	tatgacgttc	gacgggacgg				630

225

<210> 634  
 <211> 647  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(647)  
 <223> n = A,T,C or G

<400> 634  
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 taaagagaaa gtactttcct ttatatgtta agagcttagc gtaatgactt tcgttatatg 180  
 gctagttagt tttatccggc gttatagggc ttagttctgg ttatctcggg tctaattccc 240  
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 ggaaagctat tcgttatatta tcgcgattct cgaggtcgaa aggatcaagg atcttccctt 360  
 ttactaccct agtcgggtta gcggtcggtc aaaactagt tagtaccttt acctcctcga 420  
 aagttatagt cgaaacaacg tattagtoga aattatagcg gatagatcga gacggttcct 480  
 tctcgggttc tcagccggta atccctctat ttgggggtct tctccctctt cccctttgtc 540  
 ttccgcctta gcttccaagg ttccctcgaa gcgaggggtt ctacttaagt cgntagcggt 600  
 ccttataaac cncctacagg cagaccccc tgtaaacggc tcgggggt 647

<210> 635  
 <211> 645  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(645)  
 <223> n = A,T,C or G

<400> 635  
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 ataaaatcca gtcaagcccc acggtaaagc ggggtagggc taggcgaaga ggcaggaacc 300  
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 togggggcaa cgggttaaag acgcctctaa agtactactc gtttcgagaa ggggtagtca 420  
 tctcccgcct agagactctc gcgtatatca actcgcctcg cttctagcat tccgacggtc 480  
 gccgcgggct acatatcttg cggattagct ccgagggact atagggttaa ttagtctagt 540  
 aaattctctt agaggatagt cggggtcgta gttaggcagt acgaggggac atggnctgcg 600  
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<210> 636  
 <211> 643  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(643)  
 <223> n = A,T,C or G

<400> 636

226

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cctggctccc	tcctagnngc	tttacgaacg	tccctcctct	tcttacggct	cggaagtggg	180
tacggttaaa	tccggaggng	gggctaacga	atccaaggct	aactcctctt	anagtttggt	240
gtccncncgt	ttagtaagga	tccgtggagg	gcgagtattt	gncccccggc	ctttattnta	300
tagttcccta	gtacgataaa	gntaccggct	atcctattac	agcggataaa	agttatttan	360
agggccgacg	tcnccgctag	acaggctaca	gctagnngag	gtaccgcctc	cgactantcc	420
gttgnttccg	acaaggngt	ttcggttaac	tccacaaaact	cctccgcca	ctctanggtg	480
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cnttttaaca	taggttattc	cgtttaggtt	cttgccggcc	cgtgggggta	gtncnccggc	600
gcgttnntat	cggcgatttt	ccgcagtttc	cgtttcgggn	tnt		643

&lt;210&gt; 637

&lt;211&gt; 631

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(631)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 637

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cgctgggaag	actagaagtt	agctacggac	gattagtgtg	attccactct	taataacgag	120
taatcgttta	cgtcgggttg	gtgtttcggg	gttttggaga	gtaagcgtag	ttgtggagtt	180
tcgcatatag	gtccccttac	ttcggcgatc	tcgtcttctg	tcggttaggt	tattattggt	240
catccttcgc	attagtagta	gggttggtcg	gataaatcga	tagctattct	ttagaattcg	300
tagtcggaga	attcgtgtac	gaagtccctt	aagttcttta	agttcgcgag	taagacgtgt	360
acggttattt	tgctcgtcgac	gtaggtgtcg	tttacgggag	tttcgtttta	ggggtttacg	420
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gtcgattttt	cgaaggcgca	tttgttatcg	aaggggagtc	cttgagaaat	cgagatattc	540
caagaatatt	acggagatta	cagatcggaa	ggctcccag	atcggacgta	ttaccggtct	600
cgcccgaaac	gagtaggtat	cntccggata	a			631

&lt;210&gt; 638

&lt;211&gt; 606

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(606)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 638

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caataagtcc	ggtcgagtag	agggaaatcag	gggctggtan	aaaggaccac	gggcggaaaa	120
taccggtctc	cttccgggga	gcgacgtcgg	ggaaagggaa	gagagcggtc	tagttcgtag	180
gcaaacagg	cgaaaaagt	aagggttaaag	gtcggagggg	agaggatagc	tagtacgctt	240
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gttcaggctc	cggagtcccg	cgccggagggt	cgtcgcgcag	ctaggaatgg	ggactcgctc	360
agtccccggt	tatccttcgg	gattctatgt	tttcgccgat	agacggagac	cggttagtag	420
ggttccgctg	taccgccact	cgtcgccttg	atccggcccg	ctccgcttaa	gggcgatgaa	480
agattaggta	ttagggctct	acgggacgag	gcatagggag	ggagaagggg	ggaggggtcg	540
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cnnctg						606

227

<210> 639  
 <211> 592  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(592)  
 <223> n = A,T,C or G

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tccggcggttg gtagttccgg cgattccgag tatgccgaag tgtatcgctc cgtctagagg      180
ttggtatctg tttatcgcca tgacgctatt gactcggatg ctttcgaagt agggggatag      240
gcgcatagat acgcctccgc ggtgtcctct gaagtggccg catccgtgga cgcagcgtag      300
acagctcttg tggacgataa cggcttctcg tactcctact ccggctatta tgttagagag      360
gacttgtttc tgaacggata taccattagc gaaggggtac cctccgctaa cgcaggcggt      420
tctaacagtt cttccgggcg ctccgaattt agattgacgc ctccgcagca ttgtgggac      480
ctcttcggtt agccctcttt ataggatttc tcctccgccc cgaaagangg ctggtcgtcc      540
ccggcangta tgtctagctc gaacgccttg ttactccttt gttttcgaaa na          592
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<210> 640  
 <211> 637  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(637)  
 <223> n = A,T,C or G

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ttcggcgggc ggccccgcgt tcgttcgagg gctttaccct catagagtgc cagggtctcg      180
ttcttacggg ttcgtcggcg atagatttta cggcgagagg tcggtatctt cgcgcgttta      240
cgttcggtcg gcatctacgc ctagttoaca ggtagtttat gcgccggagc gcgtgacgga      300
gagggttatac gggacgcgga agaaccgcct ccaaatagact agtacaggct cgttcgggcg      360
tagatctcct cgctcggtcg gcggttctta cttctagggc cgctctacgg ttttaaggcg      420
tcgttagatc ttagaaacta tactcaagtt tcagtcggaa gaaaggaagt agagagaagg      480
gtaaacgati acctccggtt ctagcccttt ttactcgcat aacgggagaa cggggtccgg      540
ctctcagata cgctcgcga gacgtcgcga ttcaacttta acctccgcta gggcatccgt      600
atacggttaa cgcggtaaaa gcgacctcgg aaacctc          637
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<210> 641  
 <211> 649  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(649)  
 <223> n = A,T,C or G

```
<400> 641
ctntgtggcg gtggttgtct cagtttgggt ggatttttgg gtcgtaggna acctggtatg      60
aggtctagtt tcttcaacga ttcttgggtc agttacgcga ccctatcctt atcttacaat      120
```

228

gtctttctaca	tcagggttcat	caattaatat	atcaattaca	cattaacgac	ggtgtgacgc	180
aatatgagaa	agtatacatt	aaggttatta	tatattattc	gcttaaaaag	gttcttgaca	240
tgggacaact	tcaccaccca	ttctagaagc	ccccctcct	gtaggacccc	ctcgagttcc	300
ccattatctt	agttcagttt	tcatttttta	accaggaggg	tatcggtttt	taataggtag	360
tattttgtca	aactttttcag	aagctttatc	ttcaaatata	cttgaccat	ctgtactagg	420
agcactaact	attcgagtct	attacagctc	aacagaaaat	aattgaaatt	aaacaacct	480
agtatcgctc	accataacct	catcgggctc	tcacccatt	tcttcataag	ttctagagca	540
tcttgagctc	tttcttatta	cccttgatgg	tactcatggt	ctaatacccc	ccgcagttat	600
aggctccttat	ggatcctatg	ctaccaccgg	totaatccct	tctatcacn		649

&lt;210&gt; 642

&lt;211&gt; 645

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(645)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 642

tccttcggct	tggttttttt	ttcgtcgcgg	gttactatta	tcgattgtta	cttgtaaagg	60
cgatactccc	accgctcacg	atattagacc	tgctcctcta	gaagcgaacg	gcgataggct	120
tactcggcog	gcgaagacgg	cgaacgggta	ggaggagcca	tatgcaaccc	taacggagat	180
tataagtact	gggaaaaata	ctagtattaa	ggtagcgggt	taagataggt	ggagagacac	240
tattcacgag	cataagcact	tagaaggctc	tctcgaggag	aggtaggcta	cggactacgt	300
tccttcttcc	tctagcctcg	agagggagta	tagatgatc	gcaaaagaga	atccctccta	360
tacgctggca	taactagacg	acgcgtcgtc	gggaaatctc	gccaaacctc	ttgcgacctc	420
caaaaggaag	attgtcgttt	catagaacgc	taatactccg	ggtcttcccg	aatcatagcc	480
gcatatcggt	aagaagacgg	taaaaatcgcg	cgattctaac	aagattctgt	agacttaagg	540
ctaagcacta	gaagcgatct	cgattccgga	tcttaagatc	atactaatag	ttcgggtcaca	600
ccagacgacg	attagccact	agaagcccta	ctccgtngaa	accgg		645

&lt;210&gt; 643

&lt;211&gt; 586

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(586)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 643

ctttgtggcg	gcggtgtctc	atltgggtgg	atltttgggt	cgtaggaacc	tggtatgcag	60
ggtccgcccc	gaattaaaag	cgggatcccc	aaaacgnngn	ttcgcaagaa	gagaagaatc	120
atagcgatag	anctttcata	gtacaaaggt	aactaagagg	aaaataatgc	agattcagaa	180
ctagttgcc	aattagaact	cgattaggcc	aaggatccga	gcctggcgct	atcacttcgg	240
gacttaagct	acggtagagc	agtcggctct	gaagcatagc	tcccgtagga	cgtaggaaac	300
tagtccggca	cggaggacat	actctcgagt	ctcggaacgt	ctatttagaa	tataaacgca	360
ttaacctcag	aaggcgccga	cgcggttact	ctctagggaa	ctatttcatt	ccttccggag	420
ctccccatt	tttccaacac	atataccggc	aaaggaaaat	cttntgtcct	cgggtctaaag	480
agagggaaaa	aaaacgatat	ctaggttcgg	gtttatccat	ttaaaaaanat	ngacgcgact	540
actccctttc	aaagggagtt	tccccctagg	nagagttcaa	cngaag		586

&lt;210&gt; 644

&lt;211&gt; 646

&lt;212&gt; DNA

229

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(646)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 644

ctttgtggcg	gtggttgtct	catttgggtg	gcatttttgg	gtcgtaggaa	cctggtatng	60
agggctattt	gacttgtttc	tcaaatccca	tggatatggtg	ggtggcgtgc	gggggtggcgg	120
togggttcggc	gggggtgggg	gtcgtcctcc	aaaggagttg	ctagagggct	tttagtggtt	180
ttagggcggg	aaggggttag	agcggagaga	cgtcgtcgtg	gaagcttctg	gcggagcgcg	240
agaaggtagt	tagcgccggg	tcggaagatt	ctcagaattc	gagaagaggt	agtggggcgc	300
ggagagagag	tttctaagtc	taaacgtaga	ggtcgtccta	gtcgggccgg	gagtagcttt	360
taagctagag	gtcgaggtcc	tcgttttaggc	tccgggctct	tcgggcagta	tcctctttct	420
cgaggaacgg	agcgaccgac	gtcgtagccg	gaccgcgtcta	tccgtacgtt	tagagatacg	480
ctcacctcca	cgggcgtata	tgcccgata	cgtataaacg	cgtaataatac	tcgcgcgtaa	540
aacacgtata	cactatatac	acgcacgtgta	cggaccgtat	agcgttatac	gcgcgcgtat	600
attaattttac	acttatatac	gcgttaaacac	gatatatcac	acnccg		646

&lt;210&gt; 645

&lt;211&gt; 654

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(654)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 645

ncnctcggct	tgggtttttt	tctgaccccc	cccccccccc	cccccggtcg	acaacgtgcc	60
caccgttgcc	atcccagcat	agctgggtcg	ttctgtttta	ttcttagtag	tttagttcgc	120
ctatagtccc	tcgtctatcg	tctatcattt	aaggaggcgg	ggctcgtct	ttagggcggg	180
tatcttaggt	attcttctgg	tttcggctgc	cgtctcggag	tctggctcct	ttgctttcct	240
ttcttggtcg	aacttcgtgt	ttgatcgcg	tgtttctttg	gggtcgtcat	acctaaagggc	300
cacttcgcca	acaaacaagt	ttgtgtagtc	gtttctatta	gggttcgtcg	gcggcgctc	360
ttactggttg	gcgattttta	acgcgttttg	ttttaatttg	cttcctcccc	tagggctcgc	420
tcggtcttct	ctctgttcgc	tgctctcgtc	cgcccttttg	tcgggggata	gctccggcta	480
ttanctgccc	gtgtccgtgt	ggnttttgtc	caactgtgaag	gcctaggggg	gcgggcttct	540
ttggccatgg	nttccccctc	tgtgancctt	aggggtaacg	antcgttaatt	naaggctcggg	600
ggttggnata	cgttntangg	gangcctgng	tccgntattc	cttgttttgg	cctn	654

&lt;210&gt; 646

&lt;211&gt; 645

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(645)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 646

tccttcgggt	tgggtttttt	tctgagcccc	cccccccccc	ccccacgcc	aagtacacag	60
acccaccaaa	aacaacgtca	acacaacttc	gggtatacgg	accttaagag	agaccccgta	120
gtagacccta	ccacagccat	ccaatagtca	aacaacaagg	gcgcacccaa	tcctatccata	180
gagctatcaa	acaacggagg	ggaaaggaaa	gagcagggtc	aacttagcag	agatcgaagt	240

230

```

cggcactaat tcctttcaag tactcgctcg gcttgtagtt cggggtaaag tccgctctca 300
aagggccaac gaggttttaa agcgaccccc gtatcgagtc ttcttcgtat tcattaaggc 360
gttaaaggta cgagacctag aagagagtag aattagccca ccaaatcgcc taaaccggca 420
aaaacgacca aaagtcaaag acccttacaa atatcacctt aaaacgcca ccccaaaaac 480
gcgatcagta acgcacgtac ctttcccacg cttttctttc ttccactctc caaaacaaaac 540
ccgaatattt agcgcaaaaa atatccgagg gagaattaga agctattacc cgaaaaaaa 600
ncgganangg antaaatngt ggggaatana cgtttggttt ttctg 645

```

```

<210> 647
<211> 753
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

```

```

<400> 647
accttacctg gtaccgggccc cccctcgag tttttttttt tccaaataca actcagattg 60
tatacgaaaa gctgataata cattgacttt tgctgtttta atcccttgag cctttgataa 120
tgattttttt tgtgttaaca attgtagtat ataaaatcgg attcaccatc cttctgatgc 180
catattgatt agtttgattt tatggtgatg ggatcattgt gtgttaactg tattaagaag 240
aaatggattt gattgacttt gcatccattt ttatctgtgt tactttcatg ttttatataa 300
aagcattttt ggaccagaat aagttaagtg gtataatttg ctttttacac gtttatataa 360
ttgaagtttag caatgtggca aaatctctaa tggaaataaa atgcttcaga atgatgacat 420
aaatctgagc tatttcttgc ctggagaaca agtggtattc ataataattt aatagcttct 480
gaggtgtttt gttcatgtga tgaaggctta tccaccttgt atcaattcat gggctctgct 540
ttgtttaatg tagtcaggtt gtttaatacna gacttaagag tcctcctact gtgataagtg 600
gtgagtgaag attacatgtc ttangaaaaa tatactggga atatctctga cattaatggg 660
tttaaatgtt ttaaggctag gggatgatgc aatgganaaa atncttccaa angtttctgg 720
ttgtttatat ttgnggaagn catnaagana ccg 753

```

```

<210> 648
<211> 383
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

```

```

<400> 648
gatataccgg ggaaatgcgg aggcctttng gcttacgtgt ttaccgcgta gggcaaagcc 60
ttgncaaat cccggccagc ggagcggcga ggggtggggac tcacgggaag ttaaacagcc 120
tcgtcggcgt cctcgaggct ccaaaaccag gctctaggcg gggacgactg cagccgttat 180
ggaggccacc gcggtacgg ccgcggtga ggcctcccca ggtggagcgg tggcctggag 240
gggaatcttg atcctgggcc agccacctgt caagaggagg cggagcgtca tgcctctgga 300
agactggatg aatattctcc aggagcctga cgaaggcgaa gaagtctttg cagaggaaat 360
tgaatgctgt ctgatgctac aat 383

```

```

<210> 649
<211> 349
<212> DNA
<213> Homo sapien

```

```

<220>

```



231

<221> misc\_feature  
 <222> (1)...(349)  
 <223> n = A,T,C or G

<400> 649  
 cgattgtnta cnagtcttag agtaagctta agntcgntac cgagctcgga tccactagtc 60  
 cagtgtggtg ggaattccat tgtgttgggt cactagtaaa tggatttagc tagacanagg 120  
 anatttacc tattccattt agcacagtga gganaggcta nacagctagg atgcaataaa 180  
 aaaaatttta atgagaaatg tgtgtggtag attaattcta ttaatctcaa gttatagatt 240  
 aaaaatttta agtaccncat aaatgccatt tgcctttgct aangntacat ttttatgaan 300  
 aangacntg catacnaat ganatactgg actttnggna cttgangga 349

<210> 650  
 <211> 306  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(306)  
 <223> n = A,T,C or G

<400> 650  
 catttgtgtt ggagcatcct tccatcagct cccatgagaa attctctggt gggtttaagc 60  
 aatcccaaaa tatatcatat tgacatgaat atatcatctc ctcaatgtcc agcattagca 120  
 gacaagatga gtgctgaaga tgatataact cctacctctt atgtaggcta gaggtaaagt 180  
 ctggctctgc tgactgtggg gacataccga aaaggaatgt gggttaatat cagangacct 240  
 ccctgcagat ccganantca gggncctggac tttctgggan aggaagcnaa aagttatntc 300  
 tgaacc 306

<210> 651  
 <211> 769  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(769)  
 <223> n = A,T,C or G

<400> 651  
 catttgtgtt ggcagggtca tttctaaggc atgggctgga agcttttatt taaaacttta 60  
 catgtcttag aagcactctg gttgttgcta ggcagacaat tttacatctc ttgctataacc 120  
 agttgcatga agttcatcat gcataattggc tgtggaaaac cttaacagca tcatgtcata 180  
 aggtttcagt aaggtttaaa tgaaatcatg tattaagcac ttagtatagt gcaccttaaa 240  
 tgttagcttc aaaacaatga caacctaaact aatgttgaaa gaagcttggtg tttgtaaatt 300  
 atgtcttatt gaaagatgtc atcaaatact gttatttcta atcccttaaa gtctctcaat 360  
 gtatttcttt ttgccatctc caatgacagg accttagttt aagccagtggt ttctctcaac 420  
 ttctaatacca gagatacctg ggtgtcccca agaccttttc agagcatcct tgatgtcaaa 480  
 accattttta taataatatt aaaatattat ttgctcattg tactcttatt ctctcccaaa 540  
 tattcagcga gttttccaga agctatataa catgtggtaa catcttatca ctctgacgat 600  
 taatagaata tngnnttttg gattcttngn tttaaaattt tctcactttg gggtttcta 660  
 atggnnacga ttaatagata tggncctccat gaccagangg ctttaaagca ntcaataatt 720  
 ttttaagagac taagnactat cttttaaaga tngngaactc catcttaatt 769

<210> 652  
 <211> 267  
 <212> DNA

232

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(267)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 652

nnangccctt	taaccattgn	ggcctccaag	cnntggcggc	cgctctacaa	ctagnggatc	60
cgcnaactcta	gnanaangat	tggctcttnt	gggntgggcc	ggncgggctg	gggcgttaag	120
cggggctggg	cgcgcgccgn	ggttgnacna	ggcgccgccc	ccncacacn	cccggagcac	180
cctcnttgcg	gcctntcccc	gctcaccocg	cgcgcgccgn	tccgcttttt	ccncacccan	240
agcncntttt	atctntgtct	cctccgg				267

&lt;210&gt; 653

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(501)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 653

cccnttnacc	cattgctgga	ctccaccgcg	gtggcgcccg	ctctanaact	agtgggatcc	60
ttncnatgag	atngcgang	gaggacnnat	ttgctatnct	ggatggggct	gantcntnta	120
gctnctctag	cancagatgg	gttatcgagg	aagatgactc	caangggcta	nantcctatg	180
cncatcctaa	aanncanctg	ctgtnttcag	agtacgcgac	acatcatcnc	tnatgcattg	240
ntgancaaga	cgggcangtg	cttatccctca	gcgangatgc	ccttaaccan	gagctcgaat	300
ggacntatca	ccttanaggt	acanntnccg	caccacacac	cngcttgenn	cctgacgctg	360
gactggatcn	cttaggccac	caatnccccg	tttnccacat	ncctgggacn	ctananatac	420
tcganggggg	gcccgggtanc	caattcgccc	taatactgag	ccttgntacg	nacgctnact	480
ngngntccta	ttanaacgtt	g				501

&lt;210&gt; 654

&lt;211&gt; 710

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(710)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 654

gcgnctttan	cncatgctgg	gctccacgcg	gtggcgcccg	ctctacacta	gtggatccca	60
acactgagtc	caccacagna	aaactcanca	ccaggcagac	cccacaactg	cagaatccag	120
gctgcaattc	acagactaat	cntctagacc	cacctcagta	ccagatggta	ccacacagct	180
caaggnttta	ggtttgcgtg	gtanactcaa	tctctatctt	tcaccaactgc	cagcctgact	240
tcagagatcc	tgnctcttgg	acagtccctca	gtggcaggca	actctcagga	gcctcaggnt	300
tttggcacat	cccagnacca	gccagctgcc	acaggccctg	accttntanc	aacactgccc	360
atgtattcca	gacttctanc	ataccacagt	gccatgctga	ttgcatctat	agangctcag	420
gtgcncctca	aanctgtgcc	tgctgcagna	ngccccacgt	ctctggcatg	ccccaatgcc	480
atngntggna	acanttgact	tctgggcatg	ntggaattcc	ctaccaactga	ncctgaccat	540
aggnggganc	ccattttttt	cgaggggggg	gccccgcccc	caattccncc	ntatagnag	600
ncgtanttac	gcgcnctta	ctnggcngt	ngtttaacaa	cgtcnntgan	ctggggaaaa	660
cccctggngg	cnacccaaat	taaaacngct	tgcannacat	ccccctttcg		710

233

<210> 655  
 <211> 202  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(202)  
 <223> n = A,T,C or G

<400> 655							
ccccttttccc	ctttcanccc	ccccgttttg	gcngccgcen	acacctactn	catccaccca		60
cantcgacca	cccagacttt	tttccgatcc	cancatcnat	gcngattttt	tctntgcntg		120
ctgngcctgc	acctttgnta	ggtcaagcct	ggcccatctt	cgacaacttc	ctcatcacca		180
acgatgaggg	atactctgac	ga					202

<210> 656  
 <211> 308  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(308)  
 <223> n = A,T,C or G

<400> 656							
gctgntgaaa	gaccacaccg	aaaaactctn	ctttccgact	tccacatgat	gatcngcatg		60
tggtgggtgag	agacttatca	tgacgacatc	gcttccnacc	atcgcanccn	ctgccaagc		120
ccattcatgg	aggcctgggn	anttctgtga	ntgacntnga	cnctanacnc	tnccactgtn		180
tgctatccag	acttgnttng	aataatnttat	tggcnaaana	canttnccga	atgctgtgnt		240
tgnnccattga	angatctgat	cactatgaga	gggtgaggac	nncctgctng	ctggc cantnt		300
ntaaccn							308

<210> 657  
 <211> 696  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(696)  
 <223> n = A,T,C or G

<400> 657							
accnttttcca	caatnctggn	ctccccgcgg	tggcgggccgc	gtcgaccagc	aacctcagct		60
gtgggtctttg	ttacagtaat	gagttactgt	aaggaaagtg	tgacatttctg	agcaattttga		120
tttggtttaaa	aactagagca	gtttcagggg	tttcccttgta	aatctgtctt	atgtgtcttc		180
aatgttcttt	cttgaggagt	agagaaagga	attgttagga	atgatgcata	aacctatggct		240
tattttatct	cgctgccacc	cataatcaga	gcagattctt	gggactatga	ccctcatgga		300
gacatgacaa	ttgtgtgtgt	ggtgggtggg	agaaaagagc	tgggaatttt	tagggctctag		360
agggtccaat	caggactatt	ttatggagct	ctgctcacca	actttaagtg	agcaccaggg		420
gtgngaaagc	gaatcttggg	ntcaaaaana	caatggnaag	gggtaagtgtg	gtatnctgaa		480
ctggccactt	cggactctta	tttaactggg	tattctcant	taaggaggcn	nggggtggtct		540
tggcttgttna	aggaaagcct	gtgcaatgga	atgactttta	aaccccccat	taaaaaaaaaa		600
angntataaa	tcttgggtct	taanaangaa	gcctgggttc	tnttanocca	tttttcccccc		660
gggaaggnaa	atnttcttag	gnaanggaag	ggaag				696

234

<210> 658  
 <211> 698  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(698)  
 <223> n = A,T,C or G

```
<400> 658
ctggactccc cgcggtggcg gccgctctag aactagtgga tccgtgttgg ctcaattctc      60
aaggctgttg ctgtgcggcc tgttccccac acgtgctgct cagctcaggc aagcaccgag      120
cttgtgttgg ttcatgctca gcgtggaggc ccctcctcca ggtcgctgct ctgtgggggtt      180
cccatacact caggctccta ggaggagtcc atttagaaag ccagggtttt tctcagagtc      240
ttagttcctt gtgctgtcat ccatttcaca cgacttgggc cctgctcggg gcaacacagc      300
aagagaaaag acagggaaaa taagagaggg accttgcaca cacacgctct ggaccacaga      360
gccctgtgcc cagctcctct gtcaatacag gtggaatctc gtgcaggatc gcaggggtct      420
gtgatgccac caaagagcag gccgggacag ggtaggaga gaaaggagag ggaagtgggg      480
gtttctccta cgcactctta ttgcagagg gaaaggcggg ttgtattgg ggttgtcgg      540
ctttgcaccc acngcacagt tgtgagacac cccatcctn agatcaaagc cccacataca      600
gcttggggaa aaacaaaacn aaacaaaaca aaaacagtaa acctccatgc canttgttgg      660
gnaagttttn aatttncttc ccnaccan cttgcttc      698
```

<210> 659  
 <211> 750  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(750)  
 <223> n = A,T,C or G

```
<400> 659
ncaanctggn ctccaccgcg gtggcgggcg ctctagacta gtggatcctc ctcatgggcc      60
tggaatctc tgaacatatg atgaacattg cttatgaaaa attatttgta ngaaaattgt      120
gaggcctaag aatgntattt tcttttagtg atggtctttg ttgtctctg taaggnactt      180
gtgggcactc gtaagcttgg atctctttta tctaatacca gntttgagat tttcttggcc      240
ccatagatga attaaaactg gcgtacttct tgtttacaag anggataagt ctctagggt      300
aagtcttttg ggtcccaag tcaaaaagat gagggattta ccagttctct aaccttggt      360
gccccagact ccaaactttg ccttctagtc ccaagaggct atcaaaaagc aaaggccatc      420
ttccaccttc ttttccanaa cagcacacat tccagacagt acttgaaagc aggaacctcc      480
ttatccctta aaaacctctt ggaancatct tccctctctt gcttctacta tgcttggccc      540
acctancatt cncntttttc tggaaaccgg aaaaancttn tgacttnngt tggctacatt      600
cagcttggcc ccctacaatn tggtttccat ctgccctaan gaaattttta agggcacttt      660
ttttntggcc cctgactttc nnttttttag gctttcccc angctttgcc cctttggtta      720
aaggggttat tttccttccc cttttggaag      750
```

<210> 660  
 <211> 849  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(849)

235

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 660

tcggatccac	tagtccagt	tggtggaatt	cgcgcccg	gtcgacggg	agtagtgga	60
tgcntntcta	aatgttataa	ttatttcaga	attactctgc	cagaaagtta	tgatcataca	120
tagaagagtt	tgtagctaac	tttgaaagta	gtggaaagt	gttttcatgt	attgtttggg	180
ttaattttaat	tttgattata	tttggttttt	agttcaggta	atTTTTTgt	tgaaaacttc	240
aatgacaat	ttcttcatgg	ttactaaaga	tcactcatgt	ggagtagttt	cagatttttt	300
tctgaataca	tgtattactt	ttagagatgt	aaagatgtga	aattactaag	agagaaaccc	360
atgtgatttg	tttagtggt	caaaagtcgg	tagctccttt	gacctaagt	gccactgata	420
gttaaataga	tactgaagct	atgggcaggc	tggattgata	agaaaaagg	agacagagaa	480
atgggaaatt	gggaaagaac	tgtgcaaata	ggaaaaggag	agagcaacag	aacagaatta	540
gtaccacagt	gccgaagtgc	cacctcaggt	acttccatct	cccatctcct	gaagaattca	600
gtaacagttt	gcaaattggc	aacacaatca	tttagtgatc	ctgggttgata	ttttcaatac	660
tttctgggga	tttcttggct	ggnttcaaaa	gatgatgctg	atagttttat	tgcccctgaa	720
ggtattctga	agnttancat	aattttattgg	tcagtaaaat	atTTGaataa	aagngganga	780
aggaaaatct	ggcntcttat	tttgggatnt	cngcngggg	aangaggata	taattnaccc	840
cggccttg						849

&lt;210&gt; 661

&lt;211&gt; 653

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(653)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 661

aacttaagct	tggtaccgag	ctcgatcccc	tagtccagt	tggtggaatt	cgcgcccg	60
tcgacctcca	ttcgtttctt	gtcctttttt	ttcatttttt	ctcatgttct	attcacttta	120
ggtttctaag	ataaatatta	taaaataatt	tttacttata	aattattcac	tgataccctg	180
tctttaacat	gtgaaatgaa	ttcaaaagga	atcttaaatga	gaaataatat	actcatgatg	240
tttaatagat	ttgatttoga	aataataagc	cctctgaagt	cctaagttaa	aaataaagca	300
acttgtttga	taatttttca	tcaagaatgt	atctgagtct	ctgagtaatt	attagtagga	360
atattccatt	atcacaaata	cacagtataa	gctatttagt	ctaactttac	caaaaaagg	420
agctacttca	acactgtgtg	agacttttaa	tgggtttgca	ttgggtatgc	actattagca	480
agataacctta	ttttacagca	gtgtttntta	acctttocca	tttatttgaa	aggcagctaa	540
gatatagtag	ttaatntaan	gggctgatgc	atTTatatta	catgtagana	atgggagata	600
cnaaaggag	nggggggana	tnTTTTgnat	tcnnaagctt	cnttgncaat	taa	653

&lt;210&gt; 662

&lt;211&gt; 646

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(646)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 662

aaacttaagc	ttggtaccog	agctcggatc	cctagtccag	tgtggtggaa	ttcgcgccg	60
cgtcgaccca	gggacaggca	gccagngctg	gggtcaccag	gggtccctct	tgggccctcc	120
aanagcaaca	gtactggcaa	cagctgggat	ttgctgagca	cagactctgc	agcaggctcg	180
gttagactct	ctgtgcctgt	tccttcatac	catcctcacg	cccatccatg	agatgggtcc	240
agctgttttc	agatgagaaa	atggcacagg	aagctggtaa	gtgacagtca	gaaatgaatg	300

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ctggcagctt	antccttgga	cccaccgcag	tgccaggacct	tgctcaacag	ggatcacccct	360
tgtccgccac	ctgttcatga	ggccacccag	ggtttgtgtg	gtcatttgtc	tcctttcatc	420
tgcttgccct	caaccagctg	ggtcattagg	gctggggaac	ccagacccca	cacagtccct	480
ctcccagang	ccagacacan	nctncgccac	agnaaggact	tcagtccccg	aancaaatgt	540
ncctgggcgt	anaaactgna	gggncccca	tccttggtgg	ggtactgctt	tgcaactggng	600
gaattcaccc	ctcattgnna	acctttccct	nttnncaccc	ctaaac		646

&lt;210&gt; 663

&lt;211&gt; 650

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(650)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 663

aacttaagct	tggtaccgca	gctcggatcc	ctagtccagt	gtggtggaat	tcgcgggccgc	60
gtcgacgtcg	acgcggcgng	ccgtttcgac	gcagttgata	catattatta	tatactacat	120
nggttttcta	gaattaaaaa	attaatgtgt	agtgccagcc	ctagatgtaa	gttacatata	180
tcaactctat	ccaattttgt	cagccataaa	acttaccttt	ttcacatact	tctaactcta	240
acaatgtgag	aaatgtagat	cattgcaatt	ataccacaaa	ggcagatggc	tacatgcaga	300
atggatagca	gaatctagct	acttacgcta	gccacatggg	agacgttttt	tcctttgttt	360
ttgcaaaaatt	gcaatataag	ttgcatatcg	ttagagttaa	aagatgtaaa	gaacccatag	420
aagccagtga	tgaaggacat	tttatatttc	acctttacaa	angaccttaa	aattgcctat	480
gtggagcaga	aactggagga	gggcnaaanc	atongtaaaa	aaaattttgn	tnctatttgg	540
atgtgggcac	cattattacc	tccccaggtg	cctttttgnt	ttaacctttc	ttttaaaaaa	600
aataattcnt	aatttttggg	caaaaaaaaa	caagggtttt	attTaaattt		650

&lt;210&gt; 664

&lt;211&gt; 678

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(678)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 664

taaaaatcta	gactacacta	ggaaattatt	ttantatcag	aagaatatca	ggggtgtagt	60
actcatcana	gctaaatgag	agcgctttta	aaatgttagt	ttgtcttccg	ccattttctac	120
agaaagctgc	aattttcaggt	tttcaacctt	ataggtgata	tttaagaaaa	aaaaaaagca	180
atcgcaaata	gccccactgc	ttttacaaat	cattttttct	cttctaggta	tagcctgtca	240
gggtggcctaa	tgtaattttt	gacatctcta	ggaattttta	tagaaccaga	aatgggtgcc	300
agagatatgc	ctgcactaat	cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa	360
agcaaaaacta	ggcacgattg	aaatcaanat	cTTTTaggca	agaaagtcac	gatgagtttt	420
anaattattt	taggactctg	tggtttttct	ttcatagaaa	tagaaaaaaa	aaattgtata	480
aaaaccacaa	aaggtcctga	atagcccaaa	gcaacactga	acaaaangaa	caaagcagga	540
agcaacacac	taccggaatt	caattatact	accaaggtgt	antaaccaaa	acagcattct	600
attgggcata	aaatagacca	aagaccagtg	ggaaacagaa	taaagaancc	caaaataaat	660
cctatatatta	cngccnc					678

&lt;210&gt; 665

&lt;211&gt; 694

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

237

<220>  
 <221> misc\_feature  
 <222> (1)...(694)  
 <223> n = A,T,C or G

<400> 665  
 cttttcaaatt cattttttnct cttctaggta tancctgtca ggtggcctaa tgtaattttt 60  
 gacatctcta ngaatttttaa tagaaccaga aatgggtgcc agagatatgc ctgcactaat 120  
 ctttaagtggg gatttatgta tttctcaagc aagtgattaa agcaaaacta ggcacgattg 180  
 aaatcaagat ctttttaggca anaaagtcac gatgagtttt agaattattt taggactctg 240  
 tggcttttctc ttcatagaaa tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat 300  
 agccaaagca acactganca aaaagaacan agcagggaag caacacacta ccngaattca 360  
 aattatacta ccagggtgta gtaaccacaaa cagcattcta ttggcataaa atagacacca 420  
 agaccaatgg ancagaataa agaaccaccac aaataaatcc atatatntac cgccanctga 480  
 ttatcaataa cnaacaccaa gaacatatnt taagggacnt nctattcaat aantagtgtc 540  
 ggnaaaaact gggaaatcca tatgcagaaa naatgaaact agaccctat cctcaccat 600  
 acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact 660  
 atnaaancta ctattaagaa aacagatcnc nccc 694

<210> 666  
 <211> 705  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(705)  
 <223> n = A,T,C or G

<400> 666  
 tttaaaaatt tagatacact angaaaatta ttttagtatac agaagaatat caggggggtgt 60  
 agtactcatc agagctaaat gagagcgctt taaaaatgtt agtttgtctt ccgccatttc 120  
 tacagaaagc tgcaatttca ggttttcaac ctaatagggtg atattttaaga aaaaaaaaaa 180  
 gcaatcgcaa atagcccccac tgctttttaca aatcattttt tctcttctag gtatagcctg 240  
 tcagggtggcc taatgtaatt tttgacatct ctaggaattt taatagaacc agaaatgggt 300  
 gccagagata tgcctgcact aatcttaagt ggggatttat gtattttctca agcaagtgtat 360  
 taaagcaaaa ctaggcacga ttgaaatcaa gatcttttag gcaagaaagt catgatgagt 420  
 tttanaatta ttttaggact ctgtggcttt ctcttcatag aaatagaaaa aaaaattgta 480  
 taaaaccaca aaaggtcctg aatagcccaa gcaacactga acaaaaagaa caaagcagga 540  
 agcaacacac taccagaatt caaattatac taccaagggtg tagtaaccaa aacagcattc 600  
 tattgggcnt aaaatagacc naagaccaat ggaacagaat aaagaaccca aaataaatcc 660  
 atattttttac agccagctna ttatcaataa aaacnccaag aacnt 705

<210> 667  
 <211> 817  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(817)  
 <223> n = A,T,C or G

<400> 667  
 nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag 60  
 agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120  
 tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180

238

agtgcaggca	tatctctggc	acccatttct	ggttctatta	aaattcctag	agatgtcaaa	240
aattacatta	ggccacctga	caggctatac	ctagaagaga	aaaaatgatt	tgtaaaagca	300
gtggggctat	ttgcgattgc	tttttttttt	tcttaaataat	cacctattag	gttgaaaacc	360
tgaaattgca	gctttctgta	gaaatggcgg	aagacaaact	aacattttta	aagcgctctc	420
athtagctct	gatgagtact	acacccctga	tattcttctg	atactaaaaat	aattttccta	480
gtgtagtcta	aactttttta	aaaagacatg	taatccgcgg	agtttgtaac	tcaaaacgag	540
tgcacttagg	aggtatcgca	agcogtttct	ggattaaatt	cccagctagc	ttgcttgctt	600
agcaggggcg	ggnaaanaag	acatctgcag	cctagggaag	aaaacctttc	gcattgttct	660
tacgtgttta	cgttatttta	tttcctanaa	caaggcngaa	ttgggactcg	aatggttcag	720
ttgggggtggg	ggatccctcg	gtncataaaa	ngtcanaaag	anggtacagg	cggaacncca	780
agggtcgtcc	tgcatttana	ctcggaattt	tggtgcc			817

&lt;210&gt; 668

&lt;211&gt; 826

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(826)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 668

cggggggnnt	tacgtctctc	tggacgcttt	tattgtacca	gggcatccc	agcccaactg	60
taccattcga	gtccctaactc	ctgccttgct	ctagggaat	aaaataacgt	aaacacgtaa	120
gaacaatgcg	aaagcgtttt	cttccctagg	ctgcagattg	tcttcttcac	cgcccctgct	180
tagctagcta	gtagctggg	aatttaatcc	agaaacggct	tgcatacct	cctagatgca	240
ctcgttttga	gttacaaaact	ccgoggatta	catgtctttt	taaaaaagtt	tagactacac	300
tagggaaaat	tatttttagta	tcagaagaat	atcagggggt	gtagtactca	tcagagctna	360
atgagagcgc	tttaaaaaatg	ttagtttgct	ttccgccatt	tctacagaaa	gctgcaattt	420
cagggttttca	ncctaataagg	tgatatntaa	gaaaaaaaaa	acaatcgcan	atagcccact	480
gctttttacaa	atcatttttc	tcttctaggt	atagcctgtc	agggtggccta	atgtattttt	540
gacatctcta	ggaattttta	tagaccagaa	atgggtgcca	gagatatgcc	tgactaatc	600
ttaagtgggg	atttatgtat	ttctcaanca	agtgattaaa	gcaaaactag	gcacgaatga	660
aatcaagatc	tttaggccag	aaatcatgaa	nanttttana	attattttan	gaatctgtgg	720
cttctcttct	taaaatngaa	aaaaaaattg	tttaaaccca	naaggctctga	atacccaagc	780
nccctgaacn	anagaacaan	gccggagcac	cccctcccaa	atcccc		826

&lt;210&gt; 669

&lt;211&gt; 547

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(547)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 669

cattgtgttg	gggaaaaaat	gatttgtata	agcagtgggg	ctatttgcga	ttgctttttt	60
tttttcttaa	atatcaccta	ttaggttgaa	aacctgaaat	tgagcttttc	tgtagaaatg	120
gcggaagaca	aactaacatt	tttaaagcgc	tctcatttag	ctctgatgag	tactacaccc	180
ctnatattct	tctgatacta	aaataatttt	cctagtgtag	tctaaacttt	tttaaaaaaga	240
catgtaatcc	gcgaggttag	taactcaaaa	cgagtgcato	tnggaagtat	cgcagccgtt	300
nctggatnaa	attcccagct	tgctngcttg	ctnagccggg	ggggcgtnaa	aaaaacatct	360
gcagcccngg	ggnaaaaacc	ttcgcatgtt	tcttacgtgt	ttacgttatt	ttatttcctt	420
nnagcaaggc	nggganttgg	ggactcgaaa	tggtacagtt	gggctgggga	tcgcccttgt	480
tacataaaaag	ncgtccagaa	gagggacggt	tacaggcngg	ganctccaaa	ggtcagtcctc	540



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tgccatt 547

<210> 670  
 <211> 232  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(232)  
 <223> n = A,T,C or G

<400> 670  
 cgaactatatt agactaccta ggaaaattat tttagtatca gaagaatatc aggggtgtag 60  
 tactcatcag agctaaatga gagcgcttta aaaatggttag tttgtcttcc gccatttcta 120  
 cagaaagctg caatttcagg ttttcaacct aatagggtgat atttaanaaa aaaaaaagc 180  
 aatcgcaaatt agccccactg cttttacaaa tcattttttc cccaacacaa tg 232

<210> 671  
 <211> 214  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(214)  
 <223> n = A,T,C or G

<400> 671  
 ctcccccttcc ntccttcgct actncncatt ttcnnaaatt tntttcgcnt atgnnggaaaa 60  
 acacccacat tnttcancct gcacagaaca ngnggggggtg tgtaaaatga agggcttccn 120  
 cncctttctct tattnaanaa cactnaaana gggangggct aaaacccgcg ngatntctac 180  
 nctatogcgg gcgcttttgg ngttggctag aaga 214

<210> 672  
 <211> 328  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(328)  
 <223> n = A,T,C or G

<400> 672  
 ngancagcgg ngttttaaacy ggcctctaga ctcgaggaga cncctgttgg atggtggatc 60  
 acanntcgnt actactatac aggacagagt atcggganct cttggntggt ggngcctgcc 120  
 aaccactgct nctgttaact gcgtatctga agggactcgg actggcttca gaagaactac 180  
 cggtctgaat gnaccatgga tgattcncnc tagttgaaaa aaaactcagg cacatgtatt 240  
 gccactgatg actagcgcca gactnctctc ggctctntaa cgagcccaca tgncngtgtg 300  
 ncnccegtgc tgnctccaga agaggttc 328

<210> 673  
 <211> 223  
 <212> DNA  
 <213> Homo sapien

<220>

240

<221> misc\_feature  
 <222> (1)...(223)  
 <223> n = A,T,C or G

<400> 673  
 gggggcacaag ctggctagcg tttaaactta agcttggtac cgagctcgga tcccnagac 60  
 attgtgcatg aaaatgcaaa ttgagtgtgg tctatantgc catcncacc tncngcngc 120  
 tcaaaacaac ngctttctgc tgcaatgggt agggctcctn acncacggtc gcnnacggag 180  
 gccncttat cctcncgggt nnggatccct ngaagcatnt tct 223

<210> 674  
 <211> 256  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(256)  
 <223> n = A,T,C or G

<400> 674  
 gnggggtcnt ngatgagcgc gcgtaatacn atcacntnctn ggcnngntgg gtaccggggcc 60  
 cccctcnaa gcggccgccc ttttttntt ttttttcatn acatgataa ntctttnttc 120  
 taaacagacc acaccactan agttcctttt ctttngtacg gaattgagtt aaagtagagn 180  
 atacaatgca gggcttcnnc tctatttcac attccaggnt ggctcngnat ggatcggccc 240  
 tgcctctcog atgggt 256

<210> 675  
 <211> 439  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(439)  
 <223> n = A,T,C or G

<400> 675  
 nnactagtcc agtgtggtgg aattccattg tgttgggctt gtatgggttt ttttgtctag 60  
 ttntttggga aatgttngtg ttactatntt ttggatatna tatatgatat gtatggccct 120  
 tctatgggct cctcanacng aactcaacca ttttccacaa aaccnattcc tcttttcctt 180  
 tcatgactga gtggtgttgg tactatccng gaaactggga cattgtcctt cacatctntc 240  
 ccttanctgc ctngtccnat tgatgtcttt gagctntgan atgtctttgt taactntctc 300  
 ctncntctgt actgccggca naattaagca ccatntgtca caaaaagtat tgcgttacct 360  
 tcacgnatct gttngttnc atncttgctg cttctcngn ggaaaatagg ctnttctggc 420  
 aaccgaacng aanaaatac 439

<210> 676  
 <211> 587  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(587)  
 <223> n = A,T,C or G

<400> 676

241

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nggngggcctn attaagcgcg cgtaatacna ctcactntgg ggcgaattgg gtaccgggnc      60
ccctcaagt tnatntgccn aacctctctt ttggaataac aaaaggttta acacatatgt      120
cctcataggg acgcgctttc acacnttctt gaongcttca tanacntcat tncatattct      180
cctcagnaca agtttnagcgn gaaggtgagg canacnttat aattttccatt tcacaaatnc      240
ggaaagttag gctcaaaggg nttaaaaaat aacctgatac aantcataga gccggtntct      300
ggaanaagca ggagcaaagt ccaggcatcc tgatccaagc tnggtccact gccttccact      360
ctggagaggg ttcatctccg acaaaggaag ggacntgagt ggctgganaa tctcatggga      420
taaagacctc agnatctcat gctcctggaa atcccatggg ttgaacaaca ggtntttggc      480
ccgtgggttct ntccctttgn ccatctttta accttggggg aaatgatggc ntctntnagc      540
nttttttttn aaagagatng aaattgaatg attattingct cattggg      587

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&lt;210&gt; 677

&lt;211&gt; 444

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(444)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 677

```

gtggggcctn attaagcgcg cgtaatacga ctcactatag ggcgaantg ggtaccgggc      60
ccccctcgaa gcggccgccc tttttttttt tttttactgt ccaaactntc tatngatnta      120
gttgaactgt ncaacgattt catgaaattc tatacacana gccttcaggt ccagagagta      180
aaacaaattt aaatttnttc accanattgn agcagncana agcatccnat natatccgac      240
tacaatgaat natatgctna nggtanctna tttaccact ntggggtctt tanggtctgt      300
cacaaactat tttcgtaaac atcnntttta anttnggtga atggacctaa tnccagataa      360
ntctattttn tntacccctag catnctgtg gctnactttt cgggctgtgt tggcntactt      420
ttaggagaaa attggtataa atnn      444

```

&lt;210&gt; 678

&lt;211&gt; 670

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(670)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 678

```

actagtcag tgtggtggaa ttccattgtg ttgggagcag tttaaaaaaa aaaaagacna      60
aatatacnac tcttgatnaa acataaagggt acagtgggtct atgaggaana gaaaaggtag      120
ctnaggatgc aaaantacct accacatggg aaccgttngt ccacactcat tccnnanaaa      180
accgagtcct ctcanttnca cacgtgtag tttcagttgg gaagtgttg ccattactcc      240
naagcctaga accttcacgt cctgaagggt ctggaagggt tttcagattg cttaganac      300
gcngcccttc catattcntc tccactaccc nggggaacgg aacaaatgga gctgcgacng      360
ggaagcgctc cttcccntcc gaacgctttc tttcaaacct gcctgccttc cnggcgaatg      420
gaccggaagg ttttctnctc tcctttcanc ccnaattact tcctgngttg aaaattggcc      480
tgttggtttg caaatgcngg aatttggtta ctttctcat gtctgtgtt gnnnnaaccg      540
gtctncttgt tgcctccctt tngaaagggt ttcacaggc cccgcccttt ctcttntaan      600
ngtcctaadc cggncnggac cactcgggga aaattttttt ttttcgaaaa gccgccccnt      660
ccgtccggct      670

```

&lt;210&gt; 679

&lt;211&gt; 449

&lt;212&gt; DNA

242

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(449)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 679

actagtccag	tgtggtggaa	ttccattgtg	ttgggagtag	gtctactaca	ncctacttcc	60
cctatcatan	aaganccttan	caacnttcat	gatccccccc	tcntanncct	tttcctcanc	120
tgcntoctag	tcctgtttgt	cctnttccta	acantcntaa	ganagatnac	taatnctact	180
atctctnacc	tcgggaanct	acaanacgtc	tggaactatt	cngaccccat	gcancncat	240
notccatcgt	cctcccagcc	cctncccttc	ctttacntta	ctnaacgaag	gtcgacgac	300
cctccentac	ctcccnnncc	attgggnccc	aanggnactg	gacctcacga	ntacaccnac	360
tacggggnga	ctaagnctgn	aactccttac	atatntcccc	gttaccoccn	gaacncagcg	420
aacngcnaca	ccttggaant	caagaanta				449

&lt;210&gt; 680

&lt;211&gt; 670

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(670)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 680

tttcngtgtg	gtggaattcg	cggccgcgtc	gacgagaaga	nggaggagga	naaggagaag	60
gagaagaagg	agaanaagga	ggagaaggag	aagaaggaga	agaaatcatc	atcatcatca	120
tcactgtct	ngcaactatt	taagtgtgcn	antcccttga	aaacaggtac	ttttgtttca	180
atgtttggga	ccactnctga	cnatgannag	aanaccaata	aatgcttgat	naatgaaaaa	240
nccacttttt	acctgttaga	accctgaggc	taagagaant	gatgtgactc	gacttagtta	300
ccacaaacta	tgatcctagc	atnaattggg	gcctctcaac	acctcaactc	cctgtgcaag	360
aacagatttt	caatgtctac	tgatgatttt	aaatggatta	nttcctctct	ttacttctta	420
agggcatgaa	gntttatgaa	acaaaaactat	ncagttccag	acgcttaacc	cacatagtgt	480
taatagtcac	cttcaacaca	cnactaaacc	cccaaaaaan	gntttttacg	gngtttcgac	540
agttttcttt	tcctttttgac	ttgnttaaca	cccnngacaa	ctttgtnctn	tttccontgaa	600
tcacancttt	cnaanancca	atggtncggg	tttttctcnt	tcngggccct	tccttnttn	660
aaaaccanac						670

&lt;210&gt; 681

&lt;211&gt; 494

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(494)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 681

tcatggtgtc	cacagtctga	tgtgagcgca	ttaaatttaa	ggatctccgc	ccttctcctt	60
aaaactcagg	acttggaact	gancctagga	agcgcccctc	ccctccccc	ccanaccaa	120
gccccggacc	gctgcgnctc	cagctgcgcc	tagtgaaacc	gccgaattcg	aattcacact	180
cggngggccg	gcgaaggtgt	gcgcgcccgc	gggagcgccg	gggcnaagcc	gagggactgc	240
aagccaanaa	nggaggcatg	ggtggcgggg	ggcgccgtct	gatccaggaa	ggagcgagg	300
cgcgatcac	acactcttna	gacgccttgc	ccgcgcctgg	ccagcgcgca	gnctgcagga	360

243

cgcgcgaggc	aggaactcgc	tggagtttgc	caagccccc	gnctctggaa	agtntgtagc	420
tccctttcgg	ancgnctcct	ctggcccttt	gggacgggtg	tgtcattggg	cggggggtctg	480
tataaggggg	ggac					494

&lt;210&gt; 682

&lt;211&gt; 263

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(263)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 682

tgatcattca	agcgntgngc	gnataacgat	tgctnagccc	aacctttcat	agggtcgttc	60
ctttgggaat	nggatgtcta	ttgaatggca	gggatagggg	cactcggcat	tcgcctctgg	120
tacagttttg	catatatatc	ctcatcgcca	gcgagcgtag	ggganccgta	agtttgggga	180
aatgccnccg	catgnccctn	ccggagctta	aacccccaac	aatncccat	ttnaaaaaag	240
ntttnttant	taaaaaaaaa	aac				263

&lt;210&gt; 683

&lt;211&gt; 255

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(255)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 683

cttgcccggc	atgcacagac	ntntttacgg	acacnctact	ccaagngagc	ctgnanctgt	60
ctacgggtcaa	nctctaaggt	tnngncantgc	cacanatggc	atagtcccca	gggcggtnan	120
tctggantgc	tctctgcact	tgaacntaaa	gcgcntttca	aganaggnc	aatngcctgc	180
ctcttgacaa	cnaacaancc	cacaccnacc	tangaccctn	tangcaagga	ctggattctg	240
naaatgcaat	acaca					255

&lt;210&gt; 684

&lt;211&gt; 922

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(922)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 684

acccttcatt	tcatgtgctt	ctattttcc	acatctttta	catgactaag	ggattaatga	60
aatcacctct	tcataatcat	gaccataatt	tcaccaaca	agtactcaag	tttggtgtta	120
gcacttttatt	aatgcttacg	aattctctct	ctctccctct	ttctottttc	cttagtcctt	180
gcacaataag	gatttttgaa	tgtataatat	catcttaggt	aagctttcat	atggtttttg	240
catatgaagc	ttatgactgt	cataagccat	accaagcctg	tggagtatgg	catgattttc	300
attacataat	ccaatgaaaa	tagacttatt	ttaaatccct	aactttgtag	ttttaatttg	360
tatttcacta	tottgaaatt	aacagctagt	acttatccat	cacagcagtc	tcctactgac	420
atgaagcaag	ttgttgaaatg	cagtaganca	tgaatgaaag	catttaaatgt	tanacaaaaa	480
tgggtgatac	ccaagcattc	tgaattattt	gcatcaagga	atgggacatg	tacattagt	540

244

```

gcacatcttctc taccaatatg tgacttgaat tgtttttttta aaaaaaggan aatgantttc 600
tcaattttgct ttaaaaaaatt ttnaaaaagt tcaatggcat gctgctttgt ctggacttaa 660
tttattaaca attnttaanc cttccttaag gacanaattt tgggtgttcag gatcncctg 720
aaggggtctta tttttnatan nattccaaac ccaaaagggtg gtttaaaatg ggnggggttcc 780
ccccncnaaa atttgaccg gcttttttat atttaaaaaa nttncnttt gngtttgaaa 840
nctnaatacc aattaagggg gaattttacc tnccagtggg aaaaaaaaac nctngcctt 900
naaaaaattc ccnggagnca at 922

```

```

<210> 685
<211> 531
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(531)
<223> n = A,T,C or G

```

```

<400> 685
tgaggctctg taaaactggt cctctgctag gcatacttca tattctctat attaaactca 60
tctttaattg gcatggaaga ttcaattgttc caaatctcag atgaagatcc tatattggat 120
gcaattaagc ctggcagcgc cctcaaaaga cagtcttgtc actgctagcc acagccagga 180
cacagtaaca gtcccttcta gtgaccnag accataanaa atananatct aaagaattct 240
gactccaaag gcattagccc attcctggta ttgccaatta tgatagaaaa aattgccaaag 300
ctcctgggac atggaaatac actcagtaca tttgagaact ggagaactan tttccaaaat 360
agtatgaaga catganggtg attgtagata tntgagtttg gagaanttga gggaaatcng 420
attacacatg ttactacaa gagatgttna taagtaaaga aggcctgata tacaatctaa 480
cagacnantg agataaatct taantcacia ctgacntccc ttttggggcg g 531

```

```

<210> 686
<211> 336
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(336)
<223> n = A,T,C or G

```

```

<400> 686
ggngncctna tgagcgcgcg taatacgatc atatagggcg aattgggtac cgggcccccc 60
tcaagaacac tacaagctat gtocctcttct canagagccc tgaantttta acatattgaa 120
agctctnatc ttgccaanaa actccactta acttcaaaac acaccctcca cacacatcat 180
gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc 240
anagaagcag ttctcaaant gcagctnaaa aagaaactga aaaccaatt catgcaanac 300
ctagggctta tttgagagca ttttcagtg cagatt 336

```

```

<210> 687
<211> 271
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

```

```

<400> 687

```

245

aatctgcact	ggaaaatgct	ctaaaataag	ccctaggtct	tgcatagaatt	gggttttcag	60
tttctttttta	agctgcactt	tgagaactgc	ttctctggac	ccctgttcct	gaagtatgcc	120
atcttaggatt	ctgggttcagt	aagatctcag	ttaatcatga	tgtgtgtgga	gggtgtgttt	180
tgaagttttag	tggagttctt	tggcaagatc	agagctttca	atatgttnaa	acttcagggc	240
tctctgagaa	gaggacatag	cttgtagtgt	t			271

<210> 688  
 <211> 740  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(740)  
 <223> n = A,T,C or G

<400> 688						
tgatgaagcg	cgcgtnttac	nactcactat	nggggcgaan	tatgggtacc	gggnccccct	60
cgaagcggcc	gccctttttt	tnnttttttg	tgagagttta	aataaaatat	ttgagtttaa	120
tttaaagttt	gagtttaatt	aaaatatatg	gcataatcca	agttgggctt	tgcanaaaga	180
acactttctca	ggaactgtta	gttggtgtac	caggaaactca	gaagggctct	gttattaaat	240
atattttggaa	aatgcacgga	ttctctgaan	atcncctctgc	atgtgagcaa	cacttacatc	300
ncaaaccaaa	attggcattg	catacatnaa	ccaatatttc	ccaaacattt	ctgggttatgg	360
cccacccccct	ttgtgtanta	cttatttgctg	ttttttggaa	ccctggggaa	attacttaaa	420
atatttcagct	ggaaattaca	ggcgttactt	ttaaggganc	agaattaca	gtgactccca	480
aaattgcaag	tgttgattac	tatttaagaa	ccaagaatt	tgaaagaaat	tttgaaaagt	540
gaaaaacngga	aatnttaaat	gacttctcaa	atattgaaaa	ctcnggnaaa	catctccact	600
ttggtnccct	tccttttaaaa	attggctaaa	aattntttnt	tatnccccacc	ccattggaan	660
tncccccccc	ctggaacaat	tggattcccc	tatttcctaa	aaaacggccn	ccccccccgg	720
ggngaacncc	nacnttttgn					740

<210> 689  
 <211> 635  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(635)  
 <223> n = A,T,C or G

<400> 689						
actagtccag	tgtgggtggaa	ttccattgtg	ttgggattac	atatactttt	agcaattttt	60
aaagaagtgt	acaaagttag	gatgtttcct	gagctctcat	atatctgana	atgtcatttt	120
acatctccgt	cttcacctct	caaaaactct	ttcaattctt	tggctottta	tagtaatcaa	180
cacttgcact	ctggagtcac	tgtaatctct	gctcctttac	agctacnct	gttattttcca	240
gctgaatatt	tttagttatt	tcccaggggt	ccaaaaaaca	gcaataagta	ctacacaaag	300
gggggtgggcc	ataaccagaa	atgtttggga	aatactggct	catgtatgca	atgccaaatc	360
tggtttgcna	ttgtantgtt	gtcacacatgc	agagtgaatc	ttcaanaaat	ccatgcattt	420
tcacaaatata	tttaataaca	gggaaccttc	tganttcctg	gntacaccaa	ctaacagttc	480
ctgaaaaaatg	ttctttctgc	aaaacccaac	ttggggatat	gccatatatt	ttaattaaac	540
tcaaactttta	aattaaactn	caattatttt	atttttaaact	cctcaaaaaa	aaaaaaaaaa	600
aggggggggcc	cttccaangg	ggggncoggt	tcccc			635

<210> 690  
 <211> 3923  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 690

acagaagaaa	tagcaagtgc	cgagaagctg	gcatcagaaa	aacagagggg	agattttgtgt	60
ggctgcagcc	gagggagacc	aggaagatct	gcatgggtgg	aaggacctga	tgatacagag	120
gaattacaac	acataactt	agtgtttcaa	tgaacaccaa	gataaataag	tgaagagcta	180
gtccgctgtg	agtctcctca	gtgacacagg	gctggatcac	catcgacggc	actttctgag	240
tactcagtgc	agcaaagaaa	gactacagac	atctcaatgg	caggggtgag	aaataagaaa	300
ggctgctgac	tttaccatct	gagggccacac	atctgctgaa	atggagataa	ttaacatcac	360
tagaaacagc	aagatgacaa	tataatgtct	aagtagtgac	atgtttttgc	acatttccag	420
cccctttaaa	tatccacaca	cacaggaagc	acaaaaggaa	gcacagagat	ccctgggaga	480
aatgcccggc	cgccatcttg	ggtcatcgat	gagcctcgcc	ctgtgcctgg	tcccgcttgt	540
gaggggaagga	cattagaaaa	tgaattgatg	tgttccttaa	aggatgggca	ggaaaacaga	600
tcctgtttgtg	gatatttatt	tgaacgggat	tacagatttg	aaatgaagtc	acaaagttag	660
cattaccaat	gagaggaaaa	cagacgagaa	aatcttgatg	gcttcacaag	acatgaaca	720
aacaaaatgg	aatactgtga	tgacatgagg	cagccaagct	ggggaggaga	taaccacggg	780
gcagaggggtc	aggattctgg	ccctgctgcc	taaactgtgc	gttcataacc	aaatcatttc	840
atattttctaa	ccctcaaaac	aaagctgttg	taatatctga	tctctacggg	tccttctggg	900
cccaacattc	tccatatatc	cagccacact	cattttttaat	atttagttcc	cagatctgta	960
ctgtgacctt	tctacactgt	agaataacat	tactcatttt	gttcaaagac	ccttcgtgtt	1020
gctgcctaatt	atgtagctga	ctgtttttcc	taaggagtgt	tctggcccag	gggatctgtg	1080
aacaggctgg	gaagcatctc	aagatctttc	cagggttata	cttactagca	cacagcatga	1140
tcattacgga	gtgaattatc	taatcaacat	catcctcagt	gtctttgccc	atactgaaat	1200
tcattttccca	cttttgtgcc	cattctcaag	acctcaaaat	gtcattccat	taatatcaca	1260
ggattaactt	tttttttttaa	cctggaagaa	ttcaatgtta	catgcagcta	tggaatttta	1320
attacatat	ttgttttcca	gtgcaaagat	gactaagtcc	tttatccctc	ccctttgttt	1380
gattttttttt	ccagataaaa	gttaaaatgc	ttagccttgt	actgaggctg	tatacagcac	1440
agcctctccc	catccctcca	gccttatctg	tcatacccat	caacccctcc	cataccacct	1500
aaacaaaatc	taacttgtaa	ttccttgaac	atgtcaggac	atacattatt	ccttctgcct	1560
gagaagctct	tccttgtctc	ttaaactctag	aatgatgtaa	agttttgaat	aagttgacta	1620
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tagtatctta	tataatatat	ttcattttctc	tatctctatc	acaatatoca	acaagctttt	1860
cacagaattc	atgcagtgca	aatcccaaaa	ggtaaccttt	atccatttca	tgggtgagtgc	1920
gctttagaat	tttggcaaat	catactgggc	acttatctca	actttgagat	gtgtttgtcc	1980
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gtgtgtgtgt	gagtgtacat	gccaaagtgt	gcctctctct	cttgacctat	tatttcagac	2160
ttaaaacaag	cagtgtttca	aatggcacta	tgagtgcca	atgatgtatc	accaccatat	2220
ctcattatct	tccagtaaat	gtgataataa	tgtcatctgt	taacataaaa	aaagtttgac	2280
ttcacaaaag	cagctggaaa	tggacaacca	caatatgcat	aaatctaact	cctaccatca	2340
gctacacact	gcttgacata	tattgttaga	agcacctcgc	atttgtgggt	tctcttaagc	2400
aaaatacttg	cattaggtct	cagctggggc	tgtgcatcag	gcggtttgag	aaatattcaa	2460
ttctcagcag	aagccagaat	ttgaattccc	tcactcttta	ggaatcattt	accaggtttg	2520
gagaggattc	agacagctca	ggtgctttca	ctaagtctct	tgaacttctg	tccctctttg	2580
tgttcatgga	tagtccaata	aataatgtta	tctttgaact	gatgctcata	ggagagaata	2640
taagaactct	gagtgatatc	aacattaggg	attcaaagaa	atattagatt	taagctcaca	2700
ctggtcaaaa	ggaaccaaga	tacaaagaac	tctgagctgt	catcgtoccc	atctctgtga	2760
gccacaacca	acagcaggac	ccaacgcatg	tctgagatcc	ttaaatacaag	gaaaccagtg	2820
tcatgagttg	aattctccta	ttatggatgc	tagcttctgg	ccatctctgg	ctctcctctt	2880
gacacataatt	agcttctagc	ctttgcttcc	acgactttta	tcttttctcc	aacacatcgc	2940
ttaccaatcc	tctctctgct	ctgttgcttt	ggacttcccc	acaagaattt	caacgactct	3000
caagtctttt	cttccatccc	caccactaac	ctgaatgcct	agacccttat	ttttattaat	3060
ttccaataga	tgctgcctat	gggctatatt	gcttttagatg	aacattagat	atttaaagct	3120
caagagggttc	aaaatccaac	tcattatctt	ctctttcttt	cacctccctg	ctcctctccc	3180
tatattactg	attgcaactga	acagcatggg	ccccaatgta	gccatgcaaa	tgagaaaccc	3240
agtggctcct	tgtggtacat	gcatgcaaga	ctgctgaagc	cagaaggatg	actgattacg	3300
ccttaggggt	ggaggggacc	actcctgggc	cttcgtgatt	gtcaggagca	agacctgaga	3360



247

tgctccctgc	cttcagtgtc	ctctgcatct	cccctttcta	atgaagatcc	atagaatttg	3420
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acttgctgaa	aattaagttt	tttcaaaatc	tgtccttgta	aattactttt	tcttacagtg	3540
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tacctaattgc	atgtggggact	taaaacctag	atgatgggtt	gatagggtgca	gcaaaccact	3840
atggcacacg	tatacctgtg	taacaaacct	acacattctg	cacatgtatc	ccagaacgta	3900
aagtaaaatt	taaaaaaaag	tga				3923

&lt;210&gt; 691

&lt;211&gt; 882

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(882)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 691

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&lt;210&gt; 692

&lt;211&gt; 235

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(235)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 692

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&lt;210&gt; 693

&lt;211&gt; 383

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

248

<220>  
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 <223> n = A,T,C or G

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 aatacacctt taattaatta attcagcctc ctaatgcaca ttaacaaagc ccctgctaga 240  
 ctctgtccat aatggnaaac ctgnatgata cttgatatta acantttaag gaatgctcat 300  
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 gaagcatttg cacatattac ata 383

<210> 694  
 <211> 204  
 <212> DNA  
 <213> Homo sapien

<400> 694  
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 aagaaccctg tctgatgaag catcatttca gaattttaag tcaacttaca aatgtggtat 180  
 tattcacatc tgagtacaaa tttta 204

<210> 695  
 <211> 670  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(670)  
 <223> n = A,T,C or G

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 aggccctagg tccactggca ggtgtgcttc tcagggctctg aaaggggaag acagggccac 240  
 ccagaggagg agacggaggc agagacaggg ccaccagag gaggagacgg aggcagagac 300  
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 cagggccacc caaaaggagg aagccggaag gaaaaaacag ggcccccca aaggaggaag 600  
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 ggggcccnnc 670

<210> 696  
 <211> 317  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(317)

249

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 696

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gttagagacg	tttcgtgggt	gaactttctc	cctactgtct	agtagaatta	tatggggatt	300
ctggatctgc	tggtgcc					317

&lt;210&gt; 697

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(246)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 697

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aanatcaaaa	gntacnnatg	aaaaacntat	nccatctnca	naaaggaggt	gnagntatta	240
ctttct						246

&lt;210&gt; 698

&lt;211&gt; 3674

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 698

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250

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&lt;210&gt; 699

&lt;211&gt; 2051

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(2051)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 699

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&lt;210&gt; 700

&lt;211&gt; 2841

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(2841)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 700

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252

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&lt;210&gt; 701

&lt;211&gt; 3228

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

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&lt;223&gt; n = A,T,C or G

&lt;400&gt; 701

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&lt;211&gt; 4894

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 702

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&lt;210&gt; 703

&lt;211&gt; 2904

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 703

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&lt;211&gt; 4034

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 704

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Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu
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 Lys Lys Arg Ile Pro Arg Thr Tyr Pro Ser His Leu Trp Ile Pro Gly  
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                   115                  120                  125  
 Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu  
                   130                  135                  140  
 Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser  
                   145                  150                  155                  160  
 Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu  
                   165                  170                  175

## 261

Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala  
 180 185 190  
 Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala  
 195 200 205  
 Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe  
 210 215 220  
 Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg  
 225 230 235 240  
 Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp  
 245 250 255  
 Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu  
 260 265 270  
 Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg  
 275 280 285  
 Arg His Tyr Asp Glu Gly Lys Ala Leu Ala Ala Ser Arg Gly Trp Cys  
 290 295 300  
 Gly Ser Arg Pro Pro Glu Thr Thr Leu Gly Ala Val Ser Gly Leu Val  
 305 310 315 320  
 Pro Leu His Pro Gly Pro Asp Phe Ser Val Arg Lys Val Gly Met Asp  
 325 330 335  
 Pro Ile Cys Ile His Gly Phe Ser Trp Val Trp Asn Ile Ser Ala Cys  
 340 345 350  
 Gly Phe Arg Lys Ala Ser Gly Cys Ser Arg Ser Leu Ile Arg Val Val  
 355 360 365  
 Ala Pro Val  
 370

<210> 709  
 <211> 141  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(141)  
 <223> n=A,T,C or G

<400> 709  
 tacggcgtgg tgcggagggc ggtacccac aaataacacn nacaccccat cctatctgtg 60  
 tccacanata aantgactca ttctctctct cgcatanccc actntcccct ngcgataccg 120  
 taacnaancc ctccccctt t 141

<210> 710  
 <211> 196  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(196)  
 <223> n=A,T,C or G

<400> 710  
 cnatccttcn cntacaccca tgangtccat gtcgcacgtc cacctcccct caaaacttgg 60  
 gtcncatcc acccgtaact ctcccntaa ncnataccc cttttngcga atagaccca 120  
 ccttancaat nggttttcn ttttttgtcc ctnggnccgn gcgattcaan aaattgaagg 180  
 cccanaaaaa cccct 196

262

<210> 711  
<211> 177  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(177)  
<223> n=A,T,C or G

<400> 711  
ntacntcnct ccnaatgaaa ttcgaanctc ggttaccgcg gggnattccg attaggngcg 60  
tantctcgga tgtgcagtc caagtctttt gctaattctt ataattntcn ctaccctttc 120  
ttcnacaata ctgctatcct anttnttctn tcnctctctt cccanattac taaccac 177

<210> 712  
<211> 185  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(185)  
<223> n=A,T,C or G

<400> 712  
aaacgnacca nngccaacga tangtggttg ngttgggttg ggttggttcct ottatntgca 60  
ctgggttgcc gtgtcgcacg ganggccacg tccctctgnc ntgagtanca catagcatcc 120  
acgttttagtc gactntnccg ggcggccgct ctaccctntt atngattctt attaaaantc 180  
ggatc 185

<210> 713  
<211> 172  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(172)  
<223> n=A,T,C or G

<400> 713  
nntgggtcgcc tgngcgtnta ctctaaagga tntactatnc atatggantc naanacgact 60  
cactacacgg cncctcncgg agccnnggtc agtgcctnct nggagacctt ctctggggca 120  
ggangagcac tnggtatggt cacgtatcnc ttcntaaana tacnnccctc cg 172

<210> 714  
<211> 112  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(714)  
<223> n=A,T,C or G

<400> 714  
nttgctgccc tggacgtnta ctctgcanga tctactactc atnggaattc taantacgga 60



263

ctcactatnc ggcancgcag gcgcagcagg gaanggggtca cctcccagtc tc 112

<210> 715

<211> 326

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(326)

<223> n=A,T,C or G

<400> 715

tactctanag gatctncgng tcatntggat tctatntcga ctcactctag ggctcnagcn 60  
gtcngccggg caagttattc ggatcgtcgg gntccgagct tcgcaattaa ntgtgccatc 120  
gttctncaac gttcctgact nggaancccc ngcngttcng atccncnggt acctagctcc 180  
anntcccccg tntccttct ggngtntcat naangaggac cncctctgat cnccttctc 240  
taatctgcnc acnctgaacg nccaatggac atngtgcgtt taatntanna ggcccgnttc 300  
gngtgccctt cccgtnannt cagctc 326

<210> 716

<211> 122

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(122)

<223> n=A,T,C or G

<400> 716

nntgcgtcgc ctgngcgtnt actctagatg atctgantag tcatatggat tctaatacga 60  
ctcannatag ggctctagcg nggatncnga ttogtcttcc ngattcantg acncoggtan 120  
ca 122

<210> 717

<211> 203

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(203)

<223> n=A,T,C or G

<400> 717

cntgcatgcc tgcaggctga ctctagagga tctactagtc atatggatcg agcggccgcc 60  
cgggcagggtg tnaatgataa anatgcatca tactanccta cagaanggag agataatgtt 120  
ngntggacca ngttggtttt cttgcgtgtg tgtggcagta gtaagttatt agtttttana 180  
atcantaccg ccctccgcac cac 203

<210> 718

<211> 168

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

264

<222> (1)...(168)  
 <223> n=A,T,C or G

<400> 718  
 ggcagganga tcncttgagc ccnngaggtc gaggctacag tgagccanga gtgcactact 60  
 gtnnecgcct ccgcatncac gngtgggtccg atccccgggt accganctng anttcactgg 120  
 anttcttttt aancgtnttg antggtacna cctcgcantc cctggctg 168

<210> 719  
 <211> 210  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(210)  
 <223> n=A,T,C or G

<400> 719  
 cancgctcgc ataacacgta ttttntgatn aagattctna ctgacccatn aantctacnt 60  
 ctcaagctct tncanngtcc agtnaangga atgtgtatnn gtnggggatnc cacanaaaaa 120  
 aganatntcg gncgcttcat tantcatcct tcttaccan ntctctngat ncnagtgntg 180  
 ancntgaacg cacactacng gatntctcca 210

<210> 720  
 <211> 131  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(131)  
 <223> n=A,T,C or G

<400> 720  
 tccatcctaa tacgactcac tatagggctg ccaacctgcc atccactact gaggaagacc 60  
 cgnanactta ggggctcact gcgagccacc ggccacaggt cgtatagggc aaagcacgng 120  
 gaagcaccct t 131

<210> 721  
 <211> 121  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(121)  
 <223> n=A,T,C or G

<400> 721  
 tccatcctaa tacgactcac tatagggcgc ntgantnctg gcgaaaggct tacaattaag 60  
 naggaaaaan ganccaacaa ctaaaaaaaaa nncggncgtg ncagcttnga tgactngtcc 120  
 a 121

<210> 722  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

265

<220>  
 <221> misc\_feature  
 <222> (1)...(246)  
 <223> n=A,T,C or G

<400> 722  
 auctggagtc gcgcgctgca gtcacattgt ggatccanaa aatcggcaca agctctcntg 60  
 gnttcntcga tatgaanaac actaatccca tgtngtntgn gtctccgtga ttcattccctc 120  
 gcacnggtcc cnttcnaac cnttgcatag gtgttatgtt gtantctccc cagtgcacaa 180  
 agattnacac tctctcantg tctganatat gcacgagttc attgtcctgt cnccgtnaac 240  
 atcaag 246

<210> 723  
 <211> 160  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(160)  
 <223> n=A,T,C or G

<400> 723  
 cctccggaaa atccaantag agtaantncn ctctaattccg gggnaattgg nggggttnnat 60  
 acgtcctcct cccccagnt aggattnana aaaggntctc cagancaaaa nctccaaagt 120  
 gnacnanta gccgtncctg ananccaacg cccctacgtc 160

<210> 724  
 <211> 156  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(156)  
 <223> n=A,T,C or G

<400> 724  
 tnanccnata tacaccaaatt tctgattcta aantcccacc caagggaaaa aagttgagaa 60  
 gagcctttcc actttttctac taataaaaaa atgcaccagc cctaccann agtgnggaaa 120  
 acctccttag gcccttgnnt ggaacaancg aaaatc 156

<210> 725  
 <211> 347  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(347)  
 <223> n=A,T,C or G

<400> 725  
 aganggttnt atncatgctg tactcgcgcg cctgcagtcg acactagtgg atccaaagaa 60  
 ttcggcacga gagacggtgc gcgatggacc gagggcccca gccggngagg cgccgcccgc 120  
 gagcccgcg ncagacgccc catcagtagc gtccgcaccg ggnagccgcg gntctcgccc 180  
 gagccgtggg cgcgcccagag gggcgggctc gcctcccgcg gtccctcgca gctctgccc 240

266

gccccgagccc gcgcccgtcgc cgcgcgccgnc ttgcccgtcgc gnccgcgcgcg nccggnaaac 300  
 gcggctcgagg tctggatgng gcanngcccg cncctntcgc tgagcct 347

<210> 726  
 <211> 162  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(162)  
 <223> n=A,T,C or G

<400> 726  
 ttgggtgggt tgggtggggg naaatttncc catttgggtg ggtttggggg ggnaaataact 60  
 tccccgccttt tnggtnccca aaganacnaa gggggagtc cttnatagag gnagngcgat 120  
 ncntcncaac nacntngact ttgnccatgg ggagnaaggt gg 162

<210> 727  
 <211> 120  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(120)  
 <223> n=A,T,C or G

<400> 727  
 gtgtgggtgg ggaattccat tgtggttggg ggnaaatctc cgcttgtcca aagnacaggg 60  
 ggggtcnctt anagnagnagg gggttcctcc ccaccacttg ncttgnccat tngnagnaag 120

<210> 728  
 <211> 130  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(130)  
 <223> n=A,T,C or G

<400> 728  
 gaccactgc agcgttnaac ttagcttggg ccgagctcgc atccctagtc cgtgtggtgg 60  
 aattccatgt gtcgagagag gggcaaatac nctccaanac ancncctca tgctcnacac 120  
 atattcgcat 130

<210> 729  
 <211> 182  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(182)  
 <223> n=A,T,C or G

<400> 729

267

```

cngactgctn gcgttttaaac ttaagcnagg taccgaacgg ggatnnacga ctantgatcg 60
gctgggtgct tccagtcgat tanatttgtg aaaaagctga accncngccn gtttaagggg 120
annatgcaaa anatncatcc nnctgccccn taaactgntc tntccnaggg aaaaaangga 180
ag 182

```

```

<210> 730
<211> 678
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n=A,T,C or G

```

```

<400> 730
cactcncact ccggacctag gcncttcacc actgctctct tctctctcct cctcctctntc 60
ctcgggggctg ggggaccttc cccagtgacc atctcacttt ggctgaancc cactcgggggc 120
agcctgagtt tgggggtcttt ggcttctca cctcctcgg cccctcctt ggcccgcacc 180
aggccaaacc ggggcagccg taccttgagc ttgtgtccgg cctctccctc cccctctgcc 240
acctgggtact cggcatggtt gcccccgga tggcgagagc tccacgtcgg gcagtgagaa 300
gcagaaagta cgctcggccc ctgggggctg ctctcagca cctcggccc ccaccctagc 360
tctggcccc agtgtgggca acttcagcct cagcccaccc tcgcctgtgg ccgcctcgcc 420
cgctgtgcc tctcggctta gccccacgtc caactcaagc tggggcactg tcacggtggg 480
catcttaaag acaccctcac ccaccagcag ctaccacact gcaacctggg ctccaggcaa 540
aaaaagggtc acctggggca nctgaaccct gtacctgctg tgccctctgc tgaanggaat 600
gttatctgaa cctgctgcc tgggggtact gccttcccaa aaccgggtca antccacctg 660
ttggaaggna aatncccc 678

```

```

<210> 731
<211> 135
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(135)
<223> n=A,T,C or G

```

```

<400> 731
gagatccgac gtcacccct tccggcggcc caagacgctg caactcccga ggcngcccaa 60
atatcttttg aagagcgctc ccagcccaac acaatggaat tccaccacac tggnttagtg 120
gatccgagct aagcc 135

```

```

<210> 732
<211> 660
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(660)
<223> n=A,T,C or G

```

```

<400> 732
gcttgggtacc gagctnggat ccctagtaac ggccgccagt gtgctggaat tcggctttct 60
tcaatcagnt nacgagctgc atgggtctgt aacattgtca taattgctgg catagattac 120
tgaaaataaa gaaaaaaaat tgaagctgcc tatcaagttt tggattatc aaaaacttcc 180

```

268

```

tacaagttat tttacttcaa ccatggttatt acaaatatatt taatgaatac tttagagact 240
ttaattacaa aaaactgaga tagtaaaagc aagtaataaa agctgaaatt acttagctat 300
ttgataatta cataaattat tatggtccat tcaacttttc tagtgtttag tttatacacc 360
aggaagactt tcctattcta ctaacattta taaagtatgc taacctatta tttaaacgca 420
tocactatta ggattttatg gcctaaaacg tgatacagtt cagtatcttg atgtcaaaac 480
tttttaagca agtagggatt aagttcaagt gaatgtgatt ttctttcttc ccagtagggg 540
cttctgaata actcagnaaa gctcacttcc attatcttac ttataaaaaa aatgctataa 600
gacagaatgg gccgacgtgg nggctccacc tgtatccacc ttgggagcg agnggcgaat 660

```

&lt;210&gt; 733

&lt;211&gt; 836

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(836)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 733

```

aattaatgac tttttttccg ccctgccaaag ctagtttgtc taaatataat gtaaagaaat 60
tagctactca ttttctgggc cacgaagggt cctaaaatgg gaagaagtgg agatctgacc 120
ttgtaggttc taaatacact aaactgggag tgccatggat ggctttcagg atgtcctgaa 180
tcctctataa ttgtatacaa aatcgtgagt ttttaaaaaac tgggttagag ctattgggtc 240
ctcagagtct caggcatctt agaccccca aaaggttaag gactactgac ttaaccaatt 300
aggtttgagt ggcattggct ttgaagaaaa gcagaggaaa gatataatatt ataattctgg 360
gcaacaaaaa agtggatgtg tgccagcatc tttagagtaga atcctottaa aaggatagca 420
ctgcatatga actagtaggt ttttaaccagt gcataattag gcgaagtagc tcatttttct 480
gttagaattc tttttatatt gggaatgggc aagcttttac agcttttacc ttgccaatga 540
atacctggaa tttaaaaaat cttgttaggc atattgccca taaagttttt tttcctagat 600
catatattca gtaaatatgt ttgtagcttt atttcaatcc cccaattcat tgaggggtga 660
aacaatttga atggtttgag tgtagaagct aagttatttc tgtagaggct aagggcattt 720
ataccaanat atgttagact tgnngntcct gttaaccatg ctgtanacaa taggaattac 780
tgtatatcca cattttaatt ttaacatctt ctgctttgnt gntggtttga gangga 836

```

&lt;210&gt; 734

&lt;211&gt; 694

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(694)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 734

```

nagtnttatt tncactaaac tngnagtgcc ttggatggct ttcaggatgt cctgaatcct 60
ctataattgt atacaaaatc gtgagttttt aaaaactggg ttagagctat tggttcctca 120
gagtctcagg catcttagac ccccaaaaag gttaaggact actgacttaa ccaattaggt 180
ttgagtggca ttggctttga agaaaagcag aggaaagata tattttataa ttctgggcaa 240
caaaaagtg agcatcttag agtagaatcc tcttaaaagg atagcactgc 300
atatgaacta gtaggtttta accagtgcac atttaggcga agtagctcat ttttctgtta 360
gaattctttt ttatttggga atgggcaagc ttttacagct tttaccttgc caatgaatac 420
ctggaattta aaaaatcttg ttaggcataat tgcccataaa gttttttttc ctagatcata 480
tattcagtaa atatgtttgt agctttatatt caatcccca attcattgag ggttgaaaca 540
atttgaatgg tttagtgta gaagctaagt tatttctgta gaggctaagg gcatttatac 600
caagatatgt tagacttggt gttcctgtta accattgctg tagacaatag gaattactgt 660
atatccacat ttttaattttt aacatcattc tgtc 694

```

269

<210> 735  
<211> 126  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(126)  
<223> n=A,T,C or G

<400> 735  
ncnttgaaac nggttgacca gacttcaggc ctgtgcgctc aatcgtggag aatctcgtgc 60  
cgaattcggc acgagtctct ctctctctct ctctctctct ctctctctct ntctctctct 120  
ctctct 126

<210> 736  
<211> 165  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(165)  
<223> n=A,T,C or G

<400> 736  
cagaagcctt taaaccggtt ngaccagact tcaggcctgt gcgctcaatc gtggagaatc 60  
tcgtgccgaa ttcggcacga gtctctctct ctctctctct ctctctctct ctctctctct 120  
ctctctctct ctctctctct ctctctctct ctctctctct ctctc 165

<210> 737  
<211> 125  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(125)  
<223> n=A,T,C or G

<400> 737  
ggnagcccct ttaaccgttt gtccagactt caggcctgtg cgctcaatcg tggagaatct 60  
cgtgccgaat tcggcacgag tctctctctc tctctctctc tctctctctc tctctntctc 120  
tctct 125

<210> 738  
<211> 137  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(137)  
<223> n=A,T,C or G

<400> 738

270

```

ggagnncnctt gancaggatg accgacttca ggccctgtgcg ctcaatcgtg gagaatctcg 60
tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120
tctctctctc tctctctc                                     137

```

```

<210> 739
<211> 970
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(970)
<223> n=A,T,C or G

```

```

<400> 739
aggcctatatt aggtgacact atagaacaag tttgtacaaa aaagcaggct ggtaccgggtc 60
cggaattcgc ggccgcgtcg acggcccttn gtgccactag ntctttcatt cttccccccc 120
atcaatcagt gaacttttta gcctactcaa agctttgctc caatgcatag gatttatgat 180
tgtggggatt tccagataat ataaatattc aacatgaata ttttaaatta aggcatgaga 240
catttttctt aactgagcat agccatgaac ctctcacgtc tgttcctctg tgtcagtttg 300
tancactgaa tacagcagcc ctctctaaaag tccaggcagt gcacagggtc tgacatgatg 360
aagtgcagtg ttgctatggt gattttgcag ctggccaaat agtcactggt tgattttacc 420
cagcaggaga tttttgcaaa aatttcctgg gtgagagtga aatcaaactc ctattttgnt 480
tctcctctgc aagctgnagt taagatggat taatgagtag ttttagatta attaactctg 540
aagagaaaaat gggagaaaaag tgaggaaagg ttgttggcaga agtcattgct ggaatccttc 600
tgaagggagt actgacttca cttgcaaaga cnagagacta naagacaatg aagttaaact 660
tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaaatt aattctgtca 720
tacgcataatn ggattatgtg gtcattggatt tggttggcact aaccngcctn taatcagnat 780
aagaaaagtg ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgga 840
aaaaatgntn gggggccttg ggtggtggtc tnaaaanacc ccctggggat nttaaacca 900
aaantgaaga agggaaaaat ntttccccnt nttttntttt tttgccccct tgggattggn 960
ttttntttcc                                           970

```

```

<210> 740
<211> 739
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(739)
<223> n=A,T,C or G

```

```

<400> 740
gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccncca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcagtagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
tggccaaata gtcactggtt gatttttacc agcaggagat ttttgcaaaa atttcctggg 420
tgagagtga atcaaaactcc tattttgttt ctctctgca agctgnagt aaanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540
gttggcagaa gtcattgctg gaatccttct gaagggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaactt ggccgtgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggcatagg 720
ctttgtttgg cncctaacc                                     739

```



271

<210> 741  
 <211> 1171  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(1171)  
 <223> n=A,T,C or G

<400> 741  
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 attcgcggcc gcgtcgacgg cccttnntgc cactagtctt tcattcttc ccccccata 120  
 atcagtgaac tttttagcct actcaaagct ttgctccaat gcataggatt tatgattgtg 180  
 gggatttcca gataatataa atattcaaca tgaatatatt aaattaaggc atgagacatt 240  
 tttcctaact gagcatagcc atgaacctct cacgtctgtt cctctgtgtc agttttagtc 300  
 actgaatata gcagccctcc taaaagtcca ggcagtgcac aggtcttgac atgatgaagt 360  
 gacgtgttgc tatggtgatt ttgcagctgg ccaaatagtc actggttgat tttaccacgc 420  
 aggagatttt tgcaaaaatt tcctgggtga gagtgaatc aaactcctat tttgtttctc 480  
 ctctgcaagc tgtagttaag aagggattaa tggagtactt tttagaatt aaattaacct 540  
 cttgaaagaa gaaaaaatgg ggaagaaaa aaagtggaa ggaaaagggn ttggttttgg 600  
 gccnaaaaaa agtttccaan tttnggcntt ggggaaaaat tccccntttt ccttggnaaa 660  
 aggggggnaa ggttaancct tgggaacctt tttccnncct tttnggccca aaagggggaa 720  
 ccanggggaa agaaccttta ggnaaaggaa acccatttgg gaangggttt naaaacctnt 780  
 ngggcccccg ggccctcctc caanaaggga aaaaaaaagg cctggaaaan gtaccagggt 840  
 ttcannggna aaanttaaaa ttcttggcca atancnccat aattgggaat tatggggggg 900  
 ccatgggctt ttggttttgg cnccttaacc cgcnttttaa attcaaanna aaaaaaagn 960  
 gtttggaaaa nnaaaanaaa aaaattnaan ggncccnaaa aaaaaccctg gaaaaccttt 1020  
 ggaaaaaaat tngnnggggg gccnttttgt tggggggggt tnaaaaaacc ccctnggggg 1080  
 ttttttaagc ccaaaagggg gggaggggna aaanggtnc cttntttttt ttttngccc 1140  
 cccttgggga atggnntant tcanggggcc c 1171

<210> 742  
 <211> 739  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(739)  
 <223> n=A,T,C or G

<400> 742  
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 tgccactagt tctttcattc ttccccncca tcaatcagtg aacttttttag cctactcaaa 120  
 gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180  
 acatgaatat tttaaattaa ggcagtggac atttttccta actgagcata gccatgaacc 240  
 totcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300  
 ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgcagc 360  
 tggccaaata gtcactggtt gattttacc agcaggagat ttttgcaaaa atttcttggg 420  
 tgagagtga atcaaaactc tattttgttt ctcctctgca agctgnagtt aanatggatt 480  
 aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540  
 gttggcagaa gtcattgctg gaatccttct gaaggagta ctgacttcac ttgcaaagac 600  
 aagagactan aagacaatga agttaaaact ggcctgtctn tcatatgata gatgcttgag 660  
 agtacaggnt cagggaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720  
 ctttgtttgg cncctaacc 739

272

<210> 743  
<211> 610  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(610)  
<223> n=A,T,C or G

<400> 743  
ctgtccttat ttcttttagca aaaattttccc aagagaagaa ttgctgggat aatgcacatt 60  
taaattttttg atagacattc ccaaataatta tacctgtttt tgagaccttt aattcctggt 120  
gtcaaatttg cctatatatg gagtaataaa cacgatttaa agaaatgagg actaaaaaaaa 180  
gattatatat aacccaacat aaaggcaacc tcttaggcgt tgacagaaac tgacaacttt 240  
ttatctgtgg gtgcgatcca ttataagtaa cctgagcacc ttattttttc tttttaaact 300  
ctaggttagga tacccgaggt ccacaaattt ttcataagaa atattttttc tctgccctat 360  
gagatttttaa aaaatattat actgcttcaa ttgcatcaaa agaaatggac cctaatatct 420  
atgatgaagg atttgaggtt agaagacctg agtttcaatt ttggcatggc tgtttgtcta 480  
gctctngat cttggacagg tcaattgact tggcttaatc ttctcatcca tttagnngag 540  
acagcaccac tattcacagg actattgnon gaattaccag acaatagcat agngnaaaat 600  
ataangcctt 610

<210> 744  
<211> 127  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(127)  
<223> n=A,T,C or G

<400> 744  
ttnacctccc tggaccgggc cccctttccc cgggcggntc ccccgggctg caggaattct 60  
gcacgagggg gagagagttn gagagagaga gagagagaga gagagagaga gagananaga 120  
gagagag 127

<210> 745  
<211> 458  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(458)  
<223> n=A,T,C or G

<400> 745  
gatatcccg gattcgcggc cgcgtcgacg tggcctctag tttgtcctgg tccaaagcag 60  
ggaagctggg ctacgtcctg ccaggtcag ccttaggtta agggctgcct gggggaggga 120  
acttcctggg ccttcgggtc tctgtgcact ggggtggctc ctgtggcca gaatgccctg 180  
gagaagggtc ctactggaag cgaaggtgca gggcagcagg gcctgaggcg caggagctgg 240  
tgagggtccc cagcacaggc cgccgcccc gtcacatcac tgctgatggg ggggggactt 300  
ggggagtttc ccccgagaat gggaggtctc acagtcccc tgctgcaatg ctgtcgggtc 360  
actgnngcng caatgtgctc atggncactt gctttttctc tgtggccccg gccgatttat 420  
ccagcanngc acccctcttc tncctctccg anaaagcc 458

273

<210> 746  
 <211> 893  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(893)  
 <223> n=A,T,C or G

<400> 746  
 aagcaggctg gtaccgggtcc ggaatttcgcg gccgcgtcga cgtgggggagt tagctctctg 60  
 gaccccgctca tagagtaagt catcgataga gcatttgctt gatgggggact tccagaaggc 120  
 canngaaaagt cctgcccgaact tccctggggaa gcccatccgc acgtgggggtg aggggtcccca 180  
 natggaagca gctgtgtatg caggggagggg gcagaggctg ctgccaatgg gcatgtccct 240  
 tacctgaaag ggccacctct ccagggtgaca tgtcctgggg gagccggggc cgtctgctcc 300  
 ggccagaggc gtcagctca ggccacacca ggccaggcac ctcccaacct ggacagggtg 360  
 ggaccaaggt ggcttgggac aaaactctct gtgtttgcca agcaccacaat cggacacaga 420  
 gagtcaacca caccacagtc acatgggtgtc cacacngcag ggggtcaagga ggcccggccc 480  
 ctccccctca gacgtccctg ggccctctggg agtcagcaag gacgaggacg gcattgccct 540  
 tcgagacagg aaggggagtga cctcctccc gcggcattcca ggctcngctt ctccggagag 600  
 gagagggggc tacttgctgg ataaancggc cggggccaca gagaaaaagc aaggtgacca 660  
 tgagcacctt gcaaacacag tgcacccacc agcatttnag caccnnggac tgtgaagacc 720  
 tcccatttct tcgggggggaa acncgcccac ngttcccccc accntcacta gtgnattgtg 780  
 acctgggggn cgggccgacc cctgtngctt ggggnagccc tccnccagag tttctnnggc 840  
 ngcccnttaa nggnccctng nttggcccct tggcncctt tncgcttttc cca 893

<210> 747  
 <211> 738  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(738)  
 <223> n=A,T,C or G

<400> 747  
 gatatcccgg gaatttcgagg ccgcgtcnac gaagcacaga cctgngccct gctctcatgg 60  
 ggcagactgc catattgtcat tnattactga aggaaaggga tcctcagttt gcttgtggac 120  
 atttcaaat tgagggtgaga gttggataag taagaataaa gctgctcttc aaagagatga 180  
 atatagaaaa agaaacaaga tacagncttg gcagtaaggc tgggaggaag gggaaaagg 240  
 aataaagaat gaaagagtga gaaatgtgag caggagctga acacagaaaa gttcagngac 300  
 agaagcanaa ggagggaaga agggaggagg gtccctttca cagaggctca cgaggatgct 360  
 ttatgngtgc catgcagtcc atgttcagga tgtctgcttc ttanctctct acttttctaa 420  
 tanaaatttg gatacttact gatcctacat atgtaacagg gagagaagggt gaatttcaaa 480  
 gcantaaatt gaaaaattgt tcacaatttc attttttaa aaaaggagc taacagaaga 540  
 agaggttaat gtggtaatta taggatgnct cttgcgacac atgaatgnat ctggtatcat 600  
 ctgagtgagg ggggagctgt cttcctgacc caaaaggatc ctttcgttan ccngnactta 660  
 ngtcccaaaa cctcaccacc ttggagaaat natttccttt tgggggtntc attaaancct 720  
 tttggncccc gcaaaagc 738

<210> 748  
 <211> 647  
 <212> DNA  
 <213> Homo sapiens

<220>

274

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(647)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 748

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ctntgtggcg gtggctgtct catttgggtg gacttttttg gtcgtaggaa cctggatatng 60
aggtcgagag taagacgggc tattagtagt cgcacggag ttatttgtga aaacctggtt 120
agggcctctg tctccgctgc gctcgctaa attggtagg ctgcacttg aaacacggtt 180
ctaacacgcg ttgttagcgc ccttgctagc atgtgaagga cactggccct accaagaaag 240
attcgagtgc ctcttccgg tatcgttcac ggaggcgata tttactcttc ttactacggt 300
tacttcgaga ttgtctgtga agtttaagac tactaaaaag agtattaagc ctatcgggaa 360
ttagctagat cgacacgcta aaaccaaggg caatcggcgg aaatatagag gcaccaataa 420
tagggcctac agaaggccc aggttagac tcacgtttta taccggccac gggagaaata 480
aaaagataaa gtatacatcg tttagcggtc ctcggaagcc ttcggcttta atgccaagga 540
gtcgggaagca tcgtcggcga gtaataaact ccacgcgcc gagactatct acgacgccct 600
ccttaanatc cgtaaattac tcccggaaa agtatttagg cggtctct 647

```

&lt;210&gt; 749

&lt;211&gt; 642

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(642)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 749

```

ctntgtggcg gtgntgtct catttgggtg gacttttttg gtcgtaggaa cctggatatgc 60
aggtccgcgg agcgtgggct ctgcgtcgtg atgttggggg ttggtgtggt gccggttgtt 120
tttggttctg ttgagcgtag tgtgtttgaa ggtagcgtt cgtgtcttgc ttgtggtttg 180
gtgttttagg cgggtgggga ggtgtgtgtg tagctgttgc atgtcatatt gttggtgttg 240
ctgcccgtgt ctgtttgtcc ttggttattg tgggtgttac cccgcctgtg tggaagtgtt 300
gtggcagggc gggaatttaa gtgggagagt tgtgggaccc gtggttgttg ttacgttgct 360
gcttttgtcg tgggcggtgg cggcgcgtct gataattaga attggatacg gagtgtataa 420
tacttctagt aaatggggac ctagtgcctg acttcccgga atagggatct atgcgaagtc 480
cttaggatag tctttgataa gtttaacgcc caccacccta aaattatata cgattagacg 540
cataacgact cctccaggaa agataaagaa tctcacatat agaacgggac ccatacacg 600
tcggatagga aacaagagaa ctaattttng ttaaaaagac tt 642

```

&lt;210&gt; 750

&lt;211&gt; 639

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(639)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 750

```

tttgtggcgg tgggtgtctc tttgggtgga tttttgggtc gtaggtaacc tggatatngag 60
gtatagatgc cgattggtcc cgacgagcgt caccgataaat tcggtagttt cgcctttttt 120
agaaggcgtc agtactcgga acttcacttc atctcggtag ttacttttgg cgtatatagc 180
cttctccctc gaagactagc cgtcacatct gttccctagg aatcgtttct gccctaaga 240
atccgagagc gagatcccga aactagagga accttagaag agtcgtatct ccacaaggac 300
cccacagtca ttccgggaaa atccctagga ccatacgggt aggattcccc cggaaccggg 360
agcaaagctc atgatttccc acaccgcgag agcgcctata accctatccc atttcttcgg 420

```

275

```

gttatcgagg atattacgat caagccgaga gaaccgctag aaccgctttc ttcgctttct 480
cacggaacct ataagtagaa agagaaaactc aggtcttaag gggcgcttc ggctaacgaa 540
acttctactt acgaagagag tatctagaca ttaagtcata aaaatccact acgcacctcg 600
tgtacgatat catcggggagc ggttcataga cgggtgtccg 639

```

```

<210> 751
<211> 637
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(637)
<223> n=A,T,C or G

```

```

<400> 751
cttttgtggc ggnggtgtct cattttgggtg gatttttggg tcgtaggnaa cctgggtatng 60
aggcagctct gagccccccc cccccccccc cccccnccc ccccccccta ggngggttggg 120
aanacggttg atacctaaat cgagtnggtt cattaaaagt agttgattac nccctaaaat 180
aanaanaggg cttcgtcggg anaaatcggg aagganaagt cttnttggca tcataanaat 240
actggctcgg gtcctaanat nttaagng gtcnccgagg gtnttcatac cgataanaaa 300
cgttttccta tcggcaacgg gcttaacctga gggnggactt ctncgngnc ggngattnan 360
acgaanacgt agaggattnc cgntacttnt tganatcacn cgtatcatac ttgtaagcat 420
aatnttctctg aaaagtgtta taanaatacg cncgcataatt cgctttttcg tcctagggat 480
gcttaaatgg cgatactgct atagcgggtg agcgttggtt ctcgagnaana aaagcgtgtc 540
ctaatacgctc taaggnttta agnncggttg tttaaaaata nccttagaaa cctcgaggcg 600
gatactggtt tntttttaac gaaacaaagc accccnn 637

```

```

<210> 752
<211> 644
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(644)
<223> n=A,T,C or G

```

```

<400> 752
tntgtggcgg tgggtgctcat ttgggtggat ttttgggtcg taggaacctg gtatgaggtc 60
ttgcgagttg ttggtgtgtc ctgtcgttcg gtggttccct tttgagttga gtttgcctt 120
tgagggttgtt agctgctgtt cgtttgtgtt cgtgtagtgc tttgggttga gagggttatg 180
gtggtgggtta cgggtgtattg tcgcccggtg tcgcggggtt ggggtggtcg tcggttttgt 240
ggttcatagt agtcttctgc gttcgggtgg gcggttttgg gtgagtagtt tcgttcttgg 300
atgtcccat gaccggccat aatctaagta agggtagta gaaacctctc cccgatagac 360
acaaccgtcg tccactaaag acctcgctc tgatttttaa aaggaccga aaaacatccc 420
ttcaacggaa aaaacggaaa aaaagtcagc gaattcaaag aagccacggg agagaaaaaa 480
gaactaaagt tagtccgtca ttatatgtct cctcggagga ggaagcggcg gtggcgga 540
atgaggcggt aagaaagacg acctctatcg gcggttang ccctaaaagg gcgatacctt 600
acgggatgat aaggacccta ggacgcctcc ttctcgatc gtcc 644

```

```

<210> 753
<211> 635
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

276

&lt;222&gt; (1)...(635)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 753

```

ctttgtggcg gtggtgctca tttgggtgga tttttgggtc gtaggaacct ggtatgaggg 60
aatcagctcg accccccccc cccccccct ccgaagcaga gcccaaccca aagtcaccg 120
actaccgag taaactctcg gagggtagaa taagaaggag taggtcctag ccaatagaag 180
tagttccgag ccgttaggac agcggacgga acattnaaga aagagcctat attagggagg 240
aagtaacgtt cctctttcgg agctcttttaa ggggtagtcc cagaacaagg gaagaggacc 300
cgtcggctat tgcccgtcga tacgggctct cacgngagc ctaggttcga ggatagggcc 360
gctcgtaaaa ttatacggtt tccgagaaac gcttccgtag accgggtcct aaatcgctccg 420
gagtattngg agagggatcc ttcggaccct agggacagag agaggagaac ggaggttaca 480
ggaggagaac gtntcctcnc tagttttctt tangtcgaaa aatttcttac cgataggggtt 540
cctagggctcg gngaatttac ggttcgaaaa acggtagtnc ctaanggntg ntattngggg 600
tagtatcggg tcgtttacaa ntcgtccgtc tntng 635

```

&lt;210&gt; 754

&lt;211&gt; 721

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(721)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 754

```

accggattng ttntctgagcg cgtgactgct aataaaaaag atggantgcc atcttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattgtt ctgcnnggct ataaaatttg 120
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaaggga gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gttttgtagg ctttttttcc cttctctcagc ttctccctgc ttctcagaan 300
atggagtgt gatgcctgca acttaocaaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agaggagaa taaggagttc tccccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc ttgcttctt ccccaccctc ttcccagct ctctctctgt 540
ctctctcttg ntcccctgac ctttttttct tcccantgca tacttttttn tttccctttt 600
ttaatcttct atantcttaa nctaccaaan gggccctcnt gannaatttn tcaccctga 660
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721

```

&lt;210&gt; 755

&lt;211&gt; 721

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(721)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 755

```

accggattng ttntctgagcg cgtgactgct aataaaaaag atggantgcc atcttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattgtt ctgcnnggct ataaaatttg 120
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaaggga gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gttttgtagg ctttttttcc cttctctcagc ttctccctgc ttctcagaan 300
atggagtgt gatgcctgca acttaocaaa tttatctatg aatcagattc cagtgggaga 360

```

277

```

ccccataagc agagggagaa taaggagttc tccccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc tttgcttctt ccccaccctc tttcccagct ctctctctgt 540
ctctctcttg ntcccctgac ccttttttct tcccantgca tacttttttn tttccctttt 600
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcacccctga 660
ataggggatt ctntangccc tgagaatttc nttatcanaa aaatatTTTT ttaaagcatt 720
a 721

```

&lt;210&gt; 756

&lt;211&gt; 873

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(873)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 756

```

ggaagaatac agtaagtttg caaattaaaa tttctctatt tttctgttat ttattcattt 60
ggaaactgtc agcctgtctc tttcactttg ggcaagtga agcaaagacg tccagtccta 120
tcagcaatta ggctgaaagt caacgccaaag ctggcgggca agggctggtc tgagtagagg 180
ttocctagga aggcaagaga gagactccca ctcgatactc ccagctcggc aactgcctga 240
atgccaatga gcactcatta taaccgcgcc tattttatag gatttaattt tacacttcag 300
gcttaatcag tctgaaagtt aaactgacag tggttaagtta cggaatcaat gacatttagg 360
ctttatgact ttgtagctga atatctatgg gctatatattc cattctaaca gtgatatcct 420
gttcagaaat ctcatctctt ggtgatggca ctttctagtg gagcagtcac ggtaacagtc 480
cacacccatt accatgtggg tgctttacag catactgacg gaaggactga ggagccaccg 540
gagcaggagt tcctctcagg gaggacgctg acacttccac agctgcctan gtatgggcac 600
ctgatgccaa cgaanaaccc aaagcgctct cccttccaga tggaaagctgc cccacactgg 660
gctgacagca tctggagctg ctctggctca aatcccggaa tcgcacacct cctanccggg 720
gcgtttanag atcctcnggg ccagctaccg accacttttg acaagggnct taggagcgat 780
aactagnctg gcgcgttaca cncggatgga acgtcttgga cttgagacct cttgggggan 840
atggcncccc caaataantt gggaaaantn ggg 873

```

&lt;210&gt; 757

&lt;211&gt; 782

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(782)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 757

```

ggcccctcga gggatactct agagcggccg ccgactagt agctcgtcga cgatatcccg 60
ggatttgaga ccaggagaca gctccagatg ctgtcagccc agtgctgggg gcaggcttcc 120
atctgtgaag tggagaggcg ctttgggctt cttcgttggc atcagggtgcc catacctagg 180
gcagctgtgg aagtgtcagc gtccctccctg agaggaactc ctgctccggg ggctccctag 240
tccttccgtc agtatgtgt aaagcaacca catggtaatg ggtgnggact ggtaccatga 300
ctgntccctt aaaaggtggc cttcccnnaag aaaggagaat tcttggacna gggatttcac 360
ttgnttagaa atgggaaaaa ttaccattta gaattttcgn ttccaaggcn tnaagnccta 420
aaaggccttt gattcccga ccttaaccct gggcagttaa cctttcaaac gggataaacc 480
ctgangggga aaatnaaatc ctttaaaaaa ggggggggtt naaggaggggc tctttggcct 540
tcaggcantt gccaacctgg gaaattcana ggggaagtnt ttttttttgc ctgcctaggg 600
aacctttact taaacnaacc cttgnccccc catttgggt tgactttcan cctaattgct 660
gaaaggaccg ggccgntttt gntttccctt gncccaaagg naaanaaacg ggtgccantt 720

```

278

```

cccangggat tanttcccgaa aaatttggnn aatttttntt tгнаactttt tgggtttttt 780
cc                                                                782

```

```

<210> 758
<211> 647
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n=A,T,C or G

```

```

<400> 758
ntttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
gggaagagcg ccgtcgggtcc gaggtagta tagtcttcgc gccttctcgg 120
gcggcggggc tattctctcc aaaggcagag gtccctagtc gacctcgctc ccctagggtta 180
ggaacagccg tcgaatatatt taggttcgtc gaggttttct tccgagctct acgcctaagt 240
agctccgcga gcaaagtatc ggtcattttc ccctatccat cactccccta agtacgcctc 300
attattccgg aaggcaagag gccagcattc ctcccttagag tagagggtag gtacctccgt 360
cgcggtgcgc gaaagggcag agcttcgtgt cttccctccg cagcagctta acgggtctaog 420
taggcgttct cgatcttttc acgggaatcg ggggtccggga gggcggcgga aaacgtcgac 480
gtctcgggtca ccgtcaccgc ccggaacaac tagcgggttt ccgctttcaa ctgaggaacc 540
ccgcacccct cattagcgct tacgaaatcg gggangtgat tgcgcccaatt cgttagcctt 600
cgataattat tctctattag cggtcctatc tcgcgctttc gatttat 647

```

```

<210> 759
<211> 657
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(657)
<223> n=A,T,C or G

```

```

<400> 759
ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
gggctctata gaaagcctct tgtcttttaga tacgggcttt ctggtccttc gttctggaag 120
tgtagtagta ggtactgcgg gaaggcgaag agtcctttca aggacgattt acttaagttg 180
gcttattcta tagttccttc gggacataag gtcgggtacga tctatactgc gtgggaagct 240
gatagggttg gacttaaggc gaataagaag gaggcggcgg aggtcgcgat taccgcagag 300
atattattta cggcgggcgc gggtaaccgc ggtcatgcgg aaattttctg aggttcttgg 360
attcctaaga tcgctcccgt cgagtatact agcgacgaac gtaagagtgc cctcacaaga 420
accggtacaa actcaagaag aagttcccat taagcatcgt aagaaacggt aggacgagga 480
cggttaagaag taatcggaga aaggatccta gtngttacga agaagcatcg tttagctact 540
ttgcgctacc gtttatattt agacgtgttc cgtccttctc cgtgtttana aaaaagggtt 600
attccgacgg gagacttagg cgaatggagg gttccgcggg tganaatcgg ancgggg 657

```

```

<210> 760
<211> 644
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(644)
<223> n=A,T,C or G

```



279

```

<400> 760
ctttgtggcg gtggtgtctc atttgggtgg acttttttggg tcgtaggaac ctggtatgna 60
ggaaaagaag taagcctcga agcctatctc cgaccgtatt tatttcgcag aagacggaac 120
tacggacgtc gttaaccccc agtagccccc gtaagaaagg actaaagcga atggaaaagt 180
cgggaattcc ggcgaggagg cggcgattac tgaaaggagt aagagtaaga ctattgcgat 240
acttgaggcg ttccctctta aaaggcacc cgaacactct attaaaaaac acccgaagaa 300
gaacaactca tgcgatcggc cgtgtgcagc cgtcaatagt aaagagagcc atgaaccatg 360
ccatccttag accaattagg atgaagaaga ggaggaagat gaggaccaa ccctaccac 420
tcggaacc ccgcacgagc ctccgaacaa aatccgggaa ttaaacggc ggccacttc 480
cgactctcg tagcgcgac cgaatagaaa accggaaact acagctaaag ggtcctttcc 540
ggcctgttat ctaccaccc gcaatccgat cctccccccc cctcgtccaa aaaccctaac 600
ctctgcggca acattagagc agaaggagag ggcgatccct tgan 644

```

```

<210> 761
<211> 647
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n=A,T,C or G

```

```

<400> 761
ctttgtggcg gtggtgtctc atttgggtgg acttttttggg tcgtaggaac ctggtatnga 60
ggcggttact ctctgggata atcggtataa gtgttgtaaa attgggggta agagaaagt 120
tcattataag aagtgggaag acgagccggg gtgttttagtc gttaatatta agaccggttt 180
ttgttgtagt tatatagctt gcgcgtgggg aggcaataag aaacattgcg ttctgaggcc 240
ggatgcgggg aaccctcttc ggggtctaga gcgcgcgcat tgcaaaaataa ggactactga 300
cgccgctcat aacgtactca acaatgagtc ggctgcatt aagatttcgg cgaagaaccg 360
tactgcgtct actgatagta tattgcattg atagcggcat gagctttatc acgtgtcgtt 420
ttcgggttgt aagaaggag ttaagtcgat cttcgaggaa gaagagacc caaataaaaa 480
atgactcaaa aaaacctaga agaaacacga cgaaaggaaa aagaacgtta aaactagtag 540
ctcttcggan gagtagcctt agtagggtaa gtcctccgtg cgtactgtcc taagggtttg 600
atagcgcggt tgaatagacg gtcacgcgtc agaaggtaaa aanccgg 647

```

```

<210> 762
<211> 628
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(628)
<223> n=A,T,C or G

```

```

<400> 762
cattgtgttg gggtcactga gccactttt ttccagattt tttgtaaaat tgtttcgc 60
tgtgttccct ttattcgctt gtattaatat ttgcgtagt gattaaacaa atacttgg 120
ttgactgtca gtccttagag actgactaga agtagttttc atttggggct caggaaatac 180
ctactttata tttctagcta attaggaag tcattttttca gttagggttg tgttttgg 240
caggcactcg ctagctagat gacctaacat gctacttaat ttctgagtgt ttgtgtccat 300
coctgtagga ttgttgcggt gttaaatgaa attgtgtata tttgtaaagc atttacctca 360
gtgcccagac tgtgacagag tagattatta ggcttgctct tatttctgtg attaaattta 420
gtgtcagatt agcaacctat agctacttct aaagctgctg ctgctttctt tgtttagggt 480
taggaagaaa catgctggac agtttgccaa atgagagtta catgatgtgg cttgtgggaa 540
cattctaact tggaacttgc ccatttccag gactttngng ttcanagatt tttggggata 600

```

280

gatgtaaggg ttaaaaaaaaa cngaaaac

628

&lt;210&gt; 763

&lt;211&gt; 147

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(147)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 763

cattgtgttg gggcagagat aaataattcc tctgaaaagt gttttattgg aatttcaaat 60  
gaaaagctaa ctggataact tacagcatgt ttctgccaat aatctcttan aacaggcctc 120  
ttttttttat gcacaccacc ttcnggc 147

&lt;210&gt; 764

&lt;211&gt; 146

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(146)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 764

cattgtgttg ggtatgtttt ttgaaggcag gtggacagga tttgctgatg ggtaaattggc 60  
agagttaggg ggactgttag aacagagaaa.ganatcatgg ggttgggttt gagtctgatg 120  
nnnaactggg gccgnntgct cagtat 146

&lt;210&gt; 765

&lt;211&gt; 129

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(129)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 765

tncncgattc gntnctagcg tntacactna tgtcttggtta ccgagctcgg atccactagt 60  
ccagtgtggg nggaattcca ttgtgttggg gcaggaggng ctttgngtac ngtgoggctg 120  
nagaggcgg 129

&lt;210&gt; 766

&lt;211&gt; 175

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(175)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 766

281

```

cattgtgttg ggcctagtc gaatactttt agtaacttca gacagatctc ctcatctctt 60
tctgggggctt ggntttttctc ctttgtanaa tgatgccttt ctgtgggttt gtcattttcta 120
acattctgtg ngtgatgagg tgtatatctg anganctcta tcnccanagt actct 175

```

```

<210> 767
<211> 602
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(602)
<223> n=A,T,C or G

```

```

<400> 767
nnnttttaaaa nctgtntctcc ccgcggtggc ggccgctcta gaactagtgg atccttttcca 60
cctgggtttgt tttcagtggt taatcctatt agtatcagca ggatataggt caggatatca 120
ggtgcagaac ctgtggaatc agccaatttg gcttgctcat ttactttaat aagggtcccat 180
aatgagtgag agtacaaaagt tcaagccctg ttgaggggtct gcattaaaact ctcagaagta 240
tttagagtgt gccaggagcc gcgaagggtct ggttcgggtg gtggcgggaa ctgtattaga 300
gtgctaggca cggcgcgaca aagtctgtcc aacccaaaac ggtgctgagg cgttgggtgt 360
gagctccagt actcagaaaa gcattctcagc aggtactcaa cagatcctca ggggcttggg 420
ggcccagcac tggcagtgag ggcatgaaag acataaaagg gcactacctg tgggtatttt 480
ctgtttctcca aggaggaagt agcaaaaatt aggacgctgg aatatcctat gttgtagcaa 540
tcccagaaca actgatgctc aacaaaatacc acacaaaaca aattttttta aatttaatat 600
ta 602

```

```

<210> 768
<211> 671
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(671)
<223> n=A,T,C or G

```

```

<400> 768
tccaccgcgg tggcggccgc tctagactag tggatccact agtccagtgt ggggtgggaat 60
tcgcggcncg cgtcgacaaa aatactgcta aagtaatat tttatagatg actatttgcc 120
ttggggccag gaaaagcagc tggagttatt cacttagtac catTTTTtaca tactaacttt 180
gcctttttcca tgcttgcttg atgcggcttg cagcactgaa gaacagtttc aattgctagc 240
caaccagaga gcatgatcaa accaaaacaag ttccctgttt caggaaaaac aggttttagg 300
taactgaagg gttaccagtt actgattcca caatcttctc tgtaaaanatt ttctgcctat 360
tatgcagact gggcggcttt aaanntggta aaactatnaa ataccctac aatattttta 420
nggggccccn ttatnaagct tttcaggcct tcccccttcc atagcattgg tgggatacaa 480
gaaaccttta aacagcaacn agctatcnag gcccaaaagg aaagtaattn tgatttttta 540
nagattccgn aacgaaaaaa tggctgggtt caaatacnac cttcttttta aaatggnttc 600
cttattaaac nttttttttt tttaatttta ccccatggtc ntgatnttng ngcttccgcc 660
canaaaatng n 671

```

```

<210> 769
<211> 877
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

282

<222> (1)...(877)  
 <223> n=A,T,C or G

<400> 769  
 aaagctggag ctccccgcgg tggcggcgcg tctagaacta gtggatccac tagtccanng 60  
 ngggggaatt cgcggccgcg tcgacctcta tacctttgnt catgcagctt cctctgactg 120  
 ggtttgttct tcaettggct aacccctott ttacttaagc acacottgaa cattccctcc 180  
 ttccccattt ccccgacng cccctaattg acatacttct gaataacaca ggtgggtattc 240  
 cttccttggt ggaacctcct ggaggaagag acagatgatt aacaaatcct tccatcaacc 300  
 cctttgacca tgacatcaac agtgctccaa attatgggggt accgtattag cctatgtcta 360  
 tcttgatcag aatccttacc tcgggtgtatt gaaattatct atttcgtgcc tgcctcttta 420  
 aagtcagggt ttgccttatc tattgtctaa caccatgcag taggtaacat gcagtaggaa 480  
 acatggcatt aaattatttg ggttcaaata ccagttatgg tgtgtaaatg cctaccaggc 540  
 cgtgaggcac ctgctaagca ggttgcaacg atcatttgaa ttcacaccac ccttttgcaa 600  
 tagaacagat aggcacaaga ggctcatttg ggctaaagga tttgatggag gggaagtgc 660  
 aggtattcca ccaaggcctc anggccagg tccanggacc atgtctgttg tgacaactgg 720  
 agtgcatttc atatcccctn ctctgnnggg naaggtccct cncngggaga acnnttaaaa 780  
 caatcatntc tngggggnnt aatgcttctt nccccagtg gttncaactgc ngccacgagt 840  
 cccanccact agtcccangt ctgtcatgaa ccanc 877

<210> 770  
 <211> 874  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(874)  
 <223> n=A,T,C or G

<400> 770  
 ctggnctccc cgcggtggcg gccgctctag aactagtgg tccactagtc cagtgtggtg 60  
 gaattcgcgg cgcgctcgac cttttcaaag gttaacttat ttaattatca canngcaac 120  
 ccgatgagta ggtaacagta ttttactgat aggtaatcta aagaaggagg ctaaataaat 180  
 tgcccaattt cgaacagtga gaggaagaat taggattgaa acacatatag tggcttcaga 240  
 atctgtaacc ctacgatgc cactactact tctttcagaa taccctttgc ctatctattc 300  
 tgttcctatg tcatcaaat atacttaact taaaaagtat ttgtctttat tattttttaa 360  
 aaaacacagg gaagtatttc tgatcagggg cagtattgg tctgaaagac aagccagtgt 420  
 ttttgagggt ttctcccttg ccagtttttc tatgctgggt tattcaagtc ctaagaattg 480  
 tgtagctatt acagaaccgc tttagcaaat gtgttccatt aatcaagggt atttataaca 540  
 aaatttcata caagtttgga gtgctctgaa aacatagcca aaatgttcgc agggctctacc 600  
 cctctcgtgt gtcccttttt tttagctatt tcagaagcac actggtgcaa tattttacga 660  
 aatgagtttc ttccccctac ctctgcatcc tctaagaaaa aatcattgnt gttttatgaa 720  
 natgaanatc ctgctatttc atatcttgat tggagctgct taattaaatg accatttttna 780  
 aatttgtttt gattccnngc aaaaaaagtt tnttnttga tgtagggggc tcnnaaagnc 840  
 caaaaccccc caaaattttt nnttggaac ccna 874

<210> 771  
 <211> 156  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(156)  
 <223> n=A,T,C or G

<400> 771

283

```

ttaaanaact ggnctccccg cgggtggcgcc cgtctagaa ctagtggatc cactagtcca 60
gtgtggtgga attcgcgccg cgtcgaccg cgagcggcgc cccttttttt tttttttttn 120
ngtttttttg aanaattcat tgggtattta ttatttc 156

```

```

<210> 772
<211> 586
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(586)
<223> n=A,T,C or G

```

```

<400> 772
ncaanctggn ctccaccgcg gtggcgcccg ctctagacta gtggatccac tagtccagtg 60
tggtggaatt cgcgcccgcg tcgatcacia agtgctcaca agtccngnat ttattttatc 120
tccagatatg aaacttaccc ccagctatgg tcttctatct gttatttaat ttctaggcca 180
atTTTTtcca cttgaatgtc agtatttttaa ttcaaagtca cttgttccaa ataccaagtc 240
atcaacttac cctcaaatca tatcctcatt cagaaaatct acatctatta atggtagcta 300
ttttatccct gccccctgct ttttcttttt atattttaatt aatttgntca tccagcaaat 360
gcttattgag caggtattgt aggctaaaca attctanact ttaaggggac acagnttgca 420
aaacaaaatc ctgccttgna tggatactta tgnnatggng ggatacagac aatcaacata 480
atgangngca tcatatataa tggttagnan aatgataagg gnttttggga aaaaaatgca 540
cccanccaan anggattggg aagtggangg ganggtcang ggangg 586

```

```

<210> 773
<211> 2983
<212> DNA
<213> Homo sapiens

```

```

<400> 773
agagatagag tcttccctgg cattgcagga gagaatctga agggatgatg gatgcatcaa 60
aagagctgca agttctccac attgacttct tgaatcagga caacgccgtt tctcaccaca 120
catgggagtt ccaaacgagc agtcctgtgt tccggcgagg acaggtgttt cacctgcggc 180
tggtgctgaa ccagccccta caatcctacc accaactgaa actggaattc agcacagggc 240
cgaatcctag catcgccaaa cacaccctgg tggtgctcga cccgaggacg ccctcagacc 300
actacaactg gcaggcaacc cttcaaaatg agtctggcaa agaggtcaca gtggctgtca 360
ccagttcccc caatgccatc ctgggcaagt accaactaaa cgtgaaaact ggaaaccaca 420
tccttaagtc tgaagaaaac atcctatacc ttctcttcaa cccatggtgt aaagaggaca 480
tggttttcat gcctgatgag gacgagcgca aagagtacat cctcaatgac acgggctgcc 540
attacgtggg ggctgccaga agtatcaaat gcaaaccctg gaactttggt cagtttgaga 600
aaaatgtcct ggactgctgc atttccctgc tgactgagag ctccctcaag cccacagata 660
ggagggaccc cgtgctgggtg tgcagggcca tgtgtgctat gatgagcttt gagaaaggcc 720
agggcggtgt cattgggaat tggactgggg actatgaagg tggcacagcc ccatacaagt 780
ggacaggcag tgccccgacg ctgcagcagt actacaacac gaagcaggct gtgtgctttg 840
gccagtgtgt ggtgtttgct gggatcctga ctacagtgtg gagagcgttg ggcattccag 900
cacgcagtgt gacaggcttc gattcagctc acgacacaga aaggaacctc acggtggaca 960
cctatgtgaa tgagaatggc aagaaaatca ccagtatgac ccacgactct gtctggaatt 1020
tccatgtgtg gacggatgcc tggatgaagc gaccggatct gcccaagggc tacgacggct 1080
ggcaggctgt ggacgcaacg ccgcaggagc gaagccaggg tgtcttctgc tgtgggcat 1140
caccactgac cgccatccgc aaaggtgaca tctttattgt ctatgacacc agattcgtct 1200
tctcagaagt gaatggtgac aggtcctatc ggttggtgaa gatggtgaat gggcaggagg 1260
agttacacgt aatttcaatg gagaccacaa gcatcgggaa aaacatcagc accaaggcag 1320
tgggccaaga caggcgagga gatatacct atgagtacaa gtatccagaa ggctcctctg 1380
aggagaggca ggtcatggat catgccttcc tcttctcag ttctgagagg gagcacagac 1440
gacctgtaaa agagaacttt cttcacatgt cgggtacaatc agatgatgtg ctgctgggaa 1500

```

actctgttaa	tttcaccgtg	attcttaaaa	ggaagaccgc	tgccctacag	aatgtcaaca	1560
tcttgggctc	ctttgaacta	cagttgtaca	ctggcaagaa	gatggcaaaa	ctgtgtgacc	1620
tcaataagac	ctcgagatc	caaggccaag	tatcagaagt	gactctgacc	ttggactcca	1680
agacctacat	caacagcctg	gctatatagg	atgatgagcc	agttatcaga	ggtttcatca	1740
ttgcggaaat	tgtggagtct	aaggaaatca	tggcctctga	agtattcacg	tctttccagt	1800
acctgagtt	ctctatagag	ttgcctaaca	caggcagaat	tggccagcta	cttgtctgca	1860
attgtatctt	caagaatacc	ctggccatcc	ctttgactga	cgtcaagttc	tctttggaaa	1920
gcctgggcat	ctcctcacta	cagacctctg	accatgggac	ggtgcagcct	ggtgagacca	1980
tccaatccca	aataaaaatgc	acccaataa	aaactggacc	caagaaattt	atcgtaagt	2040
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&lt;213&gt; Homo sapiens

&lt;400&gt; 774

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&lt;211&gt; 684

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 775

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287

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<210> 776  
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 <212> PRT  
 <213> Homo sapiens

<400> 776  
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 Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile  
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288

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&lt;211&gt; 5668

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 777

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290

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&lt;210&gt; 778

&lt;211&gt; 1095

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 778

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Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe
                    35                      40                      45
Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
                    50                      55                      60
Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
                    65                      70                      75                      80
Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
                    85                      90                      95
Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser
                    100                     105                     110
Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
                    115                     120                     125
His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys
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Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile
                    145                     150                     155                     160
Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
                    165                     170                     175
Tyr Gly Leu Thr Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile
                    180                     185                     190
Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp
                    195                     200                     205

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Gly	Met	Val	Ser	Asn	Arg	Asp	Thr	Leu	Ile	Arg	Asn	Cys	Asp	Ala	Glu	210	215	220
Gly	Tyr	Phe	Leu	Ala	Gln	Tyr	Leu	Met	Asp	Asp	Phe	Thr	Arg	Asp	Pro	225	230	235
Leu	Tyr	Ile	Leu	Asp	Asn	Asn	His	Thr	His	Leu	Leu	Leu	Val	Asp	Asn	245	250	255
Gly	Cys	His	Gly	His	Pro	Thr	Val	Glu	Ala	Lys	Leu	Arg	Asn	Gln	Leu	260	265	270
Glu	Lys	His	Ile	Ser	Glu	Arg	Thr	Ile	Gln	Asp	Ser	Asn	Tyr	Gly	Gly	275	280	285
Lys	Ile	Pro	Ile	Val	Cys	Phe	Ala	Gln	Gly	Gly	Gly	Lys	Glu	Thr	Leu	290	295	300
Lys	Ala	Ile	Asn	Thr	Ser	Ile	Lys	Asn	Lys	Ile	Pro	Cys	Val	Val	Val	305	310	315
Glu	Gly	Ser	Gly	Arg	Ile	Ala	Asp	Val	Ile	Ala	Ser	Leu	Val	Glu	Val	325	330	335
Glu	Asp	Ala	Pro	Thr	Ser	Ser	Ala	Val	Lys	Glu	Lys	Leu	Val	Arg	Phe	340	345	350
Leu	Pro	Arg	Thr	Val	Ser	Arg	Leu	Ser	Glu	Glu	Glu	Thr	Glu	Ser	Trp	355	360	365
Ile	Lys	Trp	Leu	Lys	Glu	Ile	Leu	Glu	Cys	Ser	His	Leu	Leu	Thr	Val	370	375	380
Ile	Lys	Met	Glu	Glu	Ala	Gly	Asp	Glu	Ile	Val	Ser	Asn	Ala	Ile	Ser	385	390	395
Tyr	Ala	Leu	Tyr	Lys	Ala	Phe	Ser	Thr	Ser	Glu	Gln	Asp	Lys	Asp	Asn	405	410	415
Trp	Asn	Gly	Gln	Leu	Lys	Leu	Leu	Leu	Glu	Trp	Asn	Gln	Leu	Asp	Leu	420	425	430
Ala	Asn	Asp	Glu	Ile	Phe	Thr	Asn	Asp	Arg	Arg	Trp	Glu	Ser	Ala	Asp	435	440	445
Leu	Gln	Glu	Val	Met	Phe	Thr	Ala	Leu	Ile	Lys	Asp	Arg	Pro	Lys	Phe	450	455	460
Val	Arg	Leu	Phe	Leu	Glu	Asn	Gly	Leu	Asn	Leu	Arg	Lys	Phe	Leu	Thr	465	470	475
His	Asp	Val	Leu	Thr	Glu	Leu	Phe	Ser	Asn	His	Phe	Ser	Thr	Leu	Val	485	490	495
Tyr	Arg	Asn	Leu	Gln	Ile	Ala	Lys	Asn	Ser	Tyr	Asn	Asp	Ala	Leu	Leu	500	505	510
Thr	Phe	Val	Trp	Lys	Leu	Val	Ala	Asn	Phe	Arg	Arg	Gly	Phe	Arg	Lys	515	520	525
Glu	Asp	Arg	Asn	Gly	Arg	Asp	Glu	Met	Asp	Ile	Glu	Leu	His	Asp	Val	530	535	540
Ser	Pro	Ile	Thr	Arg	His	Pro	Leu	Gln	Ala	Leu	Phe	Ile	Trp	Ala	Ile	545	550	555
Leu	Gln	Asn	Lys	Lys	Glu	Leu	Ser	Lys	Val	Ile	Trp	Glu	Gln	Thr	Arg	565	570	575
Gly	Cys	Thr	Leu	Ala	Ala	Leu	Gly	Ala	Ser	Lys	Leu	Leu	Lys	Thr	Leu	580	585	590
Ala	Lys	Val	Lys	Asn	Asp	Ile	Asn	Ala	Ala	Gly	Glu	Ser	Glu	Glu	Leu	595	600	605
Ala	Asn	Glu	Tyr	Glu	Thr	Arg	Ala	Val	Glu	Leu	Phe	Thr	Glu	Cys	Tyr	610	615	620
Ser	Ser	Asp	Glu	Asp	Leu	Ala	Glu	Gln	Leu	Leu	Val	Tyr	Ser	Cys	Glu	625	630	635
Ala	Trp	Gly	Gly	Ser	Asn	Cys	Leu	Glu	Leu	Ala	Val	Glu	Ala	Thr	Asp	645	650	655
Gln	His	Phe	Thr	Ala	Gln	Pro	Gly	Val	Gln	Asn	Phe	Leu	Ser	Lys	Gln	660	665	670

Trp	Tyr	Gly	Glu	Ile	Ser	Arg	Asp	Thr	Lys	Asn	Trp	Lys	Ile	Ile	Leu
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Cys	Leu	Phe	Ile	Ile	Pro	Leu	Val	Gly	Cys	Gly	Phe	Val	Ser	Phe	Arg
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Lys	Lys	Pro	Val	Asp	Lys	His	Lys	Lys	Leu	Leu	Trp	Tyr	Tyr	Val	Ala
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Phe	Phe	Thr	Ser	Pro	Phe	Val	Val	Phe	Ser	Trp	Asn	Val	Val	Phe	Tyr
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Ile	Ala	Phe	Leu	Leu	Leu	Phe	Ala	Tyr	Val	Leu	Leu	Met	Asp	Phe	His
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Ser	Val	Pro	His	Pro	Pro	Glu	Leu	Val	Leu	Tyr	Ser	Leu	Val	Phe	Val
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Leu	Phe	Cys	Asp	Glu	Val	Arg	Gln	Trp	Tyr	Val	Asn	Gly	Val	Asn	Tyr
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Phe	Thr	Asp	Leu	Trp	Asn	Val	Met	Asp	Thr	Leu	Gly	Leu	Phe	Tyr	Phe
785					790					795					800
Ile	Ala	Gly	Ile	Val	Phe	Arg	Leu	His	Ser	Ser	Asn	Lys	Ser	Ser	Leu
				805						810					815
Tyr	Ser	Gly	Arg	Val	Ile	Phe	Cys	Leu	Asp	Tyr	Ile	Ile	Phe	Thr	Leu
				820					825						830
Arg	Leu	Ile	His	Ile	Phe	Thr	Val	Ser	Arg	Asn	Leu	Gly	Pro	Lys	Ile
		835						840					845		
Ile	Met	Leu	Gln	Arg	Met	Leu	Ile	Asp	Val	Phe	Phe	Phe	Leu	Phe	Leu
		850						855				860			
Phe	Ala	Val	Trp	Met	Val	Ala	Phe	Gly	Val	Ala	Arg	Gln	Gly	Ile	Leu
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Arg	Gln	Asn	Glu	Gln	Arg	Trp	Arg	Trp	Ile	Phe	Arg	Ser	Val	Ile	Tyr
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Glu	Pro	Tyr	Leu	Ala	Met	Phe	Gly	Gln	Val	Pro	Ser	Asp	Val	Asp	Gly
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Thr	Thr	Tyr	Asp	Phe	Ala	His	Cys	Thr	Phe	Thr	Gly	Asn	Glu	Ser	Lys
		915						920					925		
Pro	Leu	Cys	Val	Glu	Leu	Asp	Glu	His	Asn	Leu	Pro	Arg	Phe	Pro	Glu
		930						935					940		
Trp	Ile	Thr	Ile	Pro	Leu	Val	Cys	Ile	Tyr	Met	Leu	Ser	Thr	Asn	Ile
945					950					955					960
Leu	Leu	Val	Asn	Leu	Leu	Val	Ala	Met	Phe	Gly	Tyr	Thr	Val	Gly	Thr
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Val	Gln	Glu	Asn	Asn	Asp	Gln	Val	Trp	Lys	Phe	Gln	Arg	Tyr	Phe	Leu
				980					985						990
Val	Gln	Glu	Tyr	Cys	Ser	Arg	Leu	Asn	Ile	Pro	Phe	Pro	Phe	Ile	Val
		995						1000					1005		
Phe	Ala	Tyr	Phe	Tyr	Met	Val	Val	Lys	Lys	Cys	Phe	Lys	Cys	Cys	Cys
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<210>	779
<211>	3639

293

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 779

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294

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&lt;210&gt; 780

&lt;211&gt; 1095

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(1095)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 780

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          35          40          45
Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
          50          55          60
Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
          65          70          75          80
Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
          85          90          95
Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser
          100          105          110
Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
          115          120          125
His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys
          130          135          140
Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile
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Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
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Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile
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Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp
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Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu
          210          215          220
Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro
          225          230          235          240
Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn
          245          250          255
Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu
          260          265          270
Glu Lys Tyr Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly
          275          280          285
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295

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Glu	Asp	Ala	Leu	Thr	Ser	Ser	Ala	Val	Lys	Glu	Lys	Leu	Val	Arg	Phe																				
			340																																
Leu	Pro	Arg	Thr	Val	Ser	Arg	Leu	Pro	Glu	Glu	Glu	Thr	Glu	Ser	Trp																				
		355																																	
Ile	Lys	Trp	Leu	Lys	Glu	Ile	Leu	Glu	Cys	Ser	His	Leu	Leu	Thr	Val																				
	370					375																													
Ile	Lys	Met	Glu	Glu	Ala	Gly	Asp	Glu	Ile	Val	Ser	Asn	Ala	Ile	Ser																				
	385					390																													
Tyr	Ala	Leu	Tyr	Lys	Ala	Phe	Ser	Thr	Ser	Glu	Gln	Asp	Lys	Asp	Asn																				
				405																															
Trp	Asn	Gly	Gln	Leu	Lys	Leu	Leu	Leu	Glu	Trp	Asn	Gln	Leu	Asp	Leu																				
			420																																
Ala	Asn	Asp	Glu	Ile	Phe	Thr	Asn	Asp	Arg	Arg	Trp	Glu	Ser	Ala	Asp																				
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Leu	Gln	Glu	Val	Met	Phe	Thr	Ala	Leu	Ile	Lys	Asp	Arg	Pro	Lys	Phe																				
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Val	Arg	Leu	Phe	Leu	Glu	Asn	Gly	Leu	Asn	Leu	Arg	Lys	Phe	Leu	Thr																				
	465					470																													
His	Asp	Val	Leu	Thr	Glu	Leu	Phe	Ser	Asn	His	Phe	Ser	Thr	Leu	Val																				
				485																															
Tyr	Arg	Asn	Leu	Gln	Ile	Ala	Lys	Asn	Ser	Tyr	Asn	Asp	Ala	Leu	Leu																				
			500				</																												

296

770		775		780
Phe Thr Asp Leu Trp Asn Val Met Asp Thr Leu Gly Leu Phe Tyr Phe				
785		790		795
Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys Ser Ser Leu				800
		805		810
Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr Ile Ile Phe Thr Leu				815
		820		825
Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly Pro Lys Ile				830
		835		840
Ile Met Leu Gln Arg Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu				845
		850		855
Phe Ala Xaa Trp Met Val Ala Phe Gly Val Ala Arg Gln Gly Ile Leu				860
865		870		875
Arg Gln Asn Glu Gln Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr				880
		885		890
Glu Pro Tyr Leu Ala Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly				895
		900		905
Thr Thr Tyr Asp Phe Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys				910
		915		920
Pro Leu Cys Val Glu Leu Asp Glu His Asn Leu Pro Arg Phe Pro Glu				925
		930		935
Trp Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile				940
945		950		955
Leu Leu Val Asn Leu Leu Val Ala Met Phe Gly Tyr Thr Val Gly Thr				960
		965		970
Val Gln Glu Asn Asn Asp Gln Val Trp Lys Phe Gln Arg Tyr Phe Leu				975
		980		985
Val Gln Glu Tyr Cys Ser Arg Leu Asn Ile Pro Phe Pro Phe Ile Val				990
		995		1000
Phe Ala Tyr Phe Tyr Met Val Val Lys Lys Cys Phe Lys Cys Cys Cys				1005
1010		1015		1020
Lys Glu Lys Asn Met Glu Ser Ser Val Cys Cys Phe Lys Asn Glu Asp				1025
1025		1030		1035
Asn Glu Thr Leu Ala Trp Glu Gly Val Met Lys Glu Asn Tyr Leu Val				1040
		1045		1050
Lys Ile Asn Thr Lys Ala Asn Asp Thr Ser Glu Glu Met Arg His Arg				1055
		1060		1065
Phe Arg Gln Leu Asp Thr Lys Leu Asn Asp Leu Lys Gly Leu Leu Lys				1070
		1075		1080
Glu Ile Ala Asn Lys Ile Lys				1085
1090		1095		

&lt;210&gt; 781

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 781

Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser
5 10 15

&lt;210&gt; 782

&lt;211&gt; 45

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 782

297

agaatgccta ccgctgctgca gtgcgtgaac gtgtcgggtgg tgtct 45

<210> 783  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 783  
gagccaggga gccagatggt ggaggccagc ctctccgtac ggcac 45

<210> 784  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 784  
gaggccgacc aagagccagg gagccagatg gtggaggcca gcctc 45

<210> 785  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 785  
ggcctgcaca gtcttgaggc cgaccaagag ccaggagagcc agatg 45

<210> 786  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 786  
tacaccatcg ggctgggcct gcacagtctt gaggccgacc aagag 45

<210> 787  
<211> 42  
<212> DNA  
<213> Homo sapiens

<400> 787  
ttccagaact cctacaccat cgggctgggc ctgcacagtc tt 42

<210> 788  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 788  
ctgtcagccg cacactgttt ccagaactcc tacaccatcg ggctg 45

<210> 789  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 789  
catccgcagt ggggtgctgtc agccgcacac tgtttccaga actcc 45

298

<210> 790  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 790  
tcggg'gcgtcc tgg’tgcatcc gcagtgggtg ctgtcagccg cacac 45

<210> 791  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 791  
aacgaattgt tctgctcggg cgtcctgg’tg catccgcagt ggg’tg 45

<210> 792  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 792  
gcactgg’tca tggaaaacga attgttctgc tcggg'gcgtcc tgg’tg 45

<210> 793  
<211> 51  
<212> DNA  
<213> Homo sapiens

<400> 793  
tcgcagccct ggcaggcggc actgg’tcatg gaaaacgaat tgttctgctc g 51

<210> 794  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 794  
atcagcattg cttcgcagtg ccctaccg’cg gggaactctt gcctc 45

<210> 795  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 795  
tccgtgtccg agtctgacac catccggagc atcagcattg cttcg 45

<210> 796  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 796  
atcaagttgg acgaatccgt gtccgagtct gacaccatcc ggagc 45

<210> 797

299

<211> 45  
 <212> DNA  
 <213> Homo sapiens

<400> 797  
 aacgacctca tgctcatcaa gttggacgaa tccgtgtccg agtct 45

<210> 798  
 <211> 45  
 <212> DNA  
 <213> Homo sapiens

<400> 798  
 agacccttgc tcgctaacga cctcatgctc atcaagttgg acgaa 45

<210> 799  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 799  
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                   5                  10                  15

<210> 800  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 800  
 Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu  
                   5                  10                  15

<210> 801  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 801  
 Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met  
                   5                  10                  15

<210> 802  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 802  
 Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu  
                   5                  10                  15

<210> 803  
 <211> 14  
 <212> PRT

300

&lt;213&gt; Homo sapiens

&lt;400&gt; 803

Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu  
5 10

&lt;210&gt; 804

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 804

Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu  
5 10 15

&lt;210&gt; 805

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 805

His Pro Gln Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser  
5 10 15

&lt;210&gt; 806

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 806

Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His  
5 10 15

&lt;210&gt; 807

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 807

Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val  
5 10 15

&lt;210&gt; 808

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 808

Ala Leu Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val  
5 10 15

&lt;210&gt; 809

## 301

<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 809  
Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe Cys  
                    5                    10                    15

Ser

<210> 810  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 810  
Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu  
                    5                    10                    15

<210> 811  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 811  
Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser  
                    5                    10                    15

<210> 812  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 812  
Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser  
                    5                    10                    15

<210> 813  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 813  
Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser  
                    5                    10                    15

<210> 814  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 814

## 302

Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu  
                                   5                                  10                                  15

<210> 815  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 815  
 ggaccagcat atgaggaaca gaaggaatga cactc 35

<210> 816  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 816  
 ccgctcgagt ccacccaag cttcacagg 29

<210> 817  
 <211> 1959  
 <212> DNA  
 <213> Homo sapiens

<400> 817  
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 cggagcacag acttgtctta cagtgaagc gacttggatga attttattca agcaaatttt 120  
 aagaaacgag aatgtgtctt ctttaacaaa gattccaagg ccacggagaa tgtgtgcaag 180  
 tgtggctatg ccagagacca gcacatggaa ggcaccaga tcaaccaaag tgagaaatgg 240  
 aactacaaga aacacaccaa ggaatttcct accgacgcct ttggggatat tcagtttgag 300  
 aactgggga agaaaggga gtatatacgt ctgtcctgcg acacggagcg ggaaatcctt 360  
 tacgagctgc tgaccagca ctggcacctg aaaacaccca acctggtcat ttctgtgacc 420  
 gggggcgcca agaacttcgc cctgaagcgc cgcattgcga agatcttcag ccggctcatc 480  
 tacatcgcg agtccaaagg tgcttggatt ctacgggag gcacccatta tggcctgatg 540  
 aagtacatcg gggaggtggt gagagataac accatcagca ggagttcaga ggagaatatt 600  
 gtggccattg gcatagcagc ttggggcatg gtctccaacc gggacaccct catcaggaat 660  
 tgcgatgctg agggctatct tttagcccag taccttatgg atgacttoac aagagatcca 720  
 ctgtatatcc tggacaacaa ccacacacat ttgctgctcg tggacaatgg ctgtcatgga 780  
 catcccactg tcgaagcaaa gctccggaat cagctagaga agtatatctc tgagcgcact 840  
 attcaagatt ccaactatgg tggcaagatc ccatttgtgt gttttgcca aggaggtgga 900  
 aaagagactt tgaaagccat caatacctcc atcaaaaata aaattccttg tgtggtggtg 960  
 gaaggctcgc gccagatcgc tgatgtgatc gctagcctgg tggaggtgga ggatgccctg 1020  
 acatcttctg ccgtcaagga gaagctggtg cgctttttac ccgcacgggt gtcccggctg 1080  
 cctgaggagg agactgagag ttggatcaaa tggctcaaag aaattctcga atgttctcac 1140  
 ctattaacag ttattaaaat ggaagaagct ggggatgaaa ttgtgagcaa tgccatctcc 1200  
 tacgctctat acaaagcctt cagcaccagt gagcaagaca aggataactg gaatgggcag 1260  
 ctgaagcttc tgctggagtg gaaccagctg gacttagcca atgatgagat ttccaccaat 1320  
 gaccgccgat gggagtctgc tgaccttcaa gaagtcatgt ttacggctct cataaaggac 1380  
 agacccaagt ttgtccgcct ctttctggag aatggcttga acctacggaa gtttctcacc 1440  
 catgatgtcc tcactgaact cttctccaac cacttcagca cgcttgtgta ccggaatctg 1500



303

```

cagatcgcca agaattccta taatgatgcc ctctcacgt ttgtctggaa actgggttgcg 1560
aacttccgaa gaggttccg gaaggaagac agaaatggcc gggacgagat ggacatagaa 1620
ctccacgacg tgtctcctat tactcggcac cccctgcaag ctctcttcat ctgggccatt 1680
cttcagaata agaaggaact ctccaaagtc atttgggagc agaccagggg ctgcactctg 1740
gcagccctgg gagccagcaa gcttctgaag actctggcca aagtgaagaa cgacatcaat 1800
gctgctgggg agtccgagga gctggctaata gactacgaga cccgggctgt tgagctgttc 1860
actgagtgtt acagcagcga tgaagacttg gcagaacagc tgctggtcta ttctgtgaa 1920
gcttgggggtg gactcgagca ccaccaccac caccactga 1959

```

&lt;210&gt; 818

&lt;211&gt; 652

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 818

```

Met Arg Asn Arg Arg Asn Asp Thr Leu Asp Ser Thr Arg Thr Leu Tyr
                    5              10              15
Ser Ser Ala Ser Arg Ser Thr Asp Leu Ser Tyr Ser Glu Ser Asp Leu
                20              25              30
Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe
                35              40              45
Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
                50              55              60
Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
                65              70              75              80
Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
                85              90              95
Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser
                100              105              110
Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
                115              120              125
His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys
                130              135              140
Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile
                145              150              155              160
Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
                165              170              175
Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile
                180              185              190
Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp
                195              200              205
Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu
                210              215              220
Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro
                225              230              235              240
Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn
                245              250              255
Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu
                260              265              270
Glu Lys Tyr Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly
                275              280              285
Lys Ile Pro Ile Val Cys Phe Ala Gln Gly Gly Gly Lys Glu Thr Leu
                290              295              300
Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val
                305              310              315              320
Glu Gly Ser Gly Gln Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val
                325              330              335
Glu Asp Ala Leu Thr Ser Ser Ala Val Lys Glu Lys Leu Val Arg Phe

```

304

```

      340      345      350
Leu Pro Arg Thr Val Ser Arg Leu Pro Glu Glu Glu Thr Glu Ser Trp
      355      360      365
Ile Lys Trp Leu Lys Glu Ile Leu Glu Cys Ser His Leu Leu Thr Val
      370      375      380
Ile Lys Met Glu Glu Ala Gly Asp Glu Ile Val Ser Asn Ala Ile Ser
385      390      395      400
Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn
      405      410      415
Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu
      420      425      430
Ala Asn Asp Glu Ile Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp
      435      440      445
Leu Gln Glu Val Met Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe
      450      455      460
Val Arg Leu Phe Leu Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr
465      470      475      480
His Asp Val Leu Thr Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val
      485      490      495
Tyr Arg Asn Leu Gln Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu
      500      505      510
Thr Phe Val Trp Lys Leu Val Ala Asn Phe Arg Arg Gly Phe Arg Lys
      515      520      525
Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val
      530      535      540
Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile
545      550      555      560
Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg
      565      570      575
Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu
      580      585      590
Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu
      595      600      605
Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr
      610      615      620
Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu
625      630      635      640
Ala Trp Gly Gly Leu Glu His His His His His
      645      650

```

&lt;210&gt; 819

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 819

```

Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
1      5      10      15
Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
      20      25      30
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
      35      40      45
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
      50      55      60
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
65      70      75      80
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala

```

305

	85		90		95										
Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser	Val	Asn	Trp
		100						105						110	
Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr	Leu	Ala	Glu
		115					120					125			
Gly	Pro	Pro	Ala												
	130														

<210> 820  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 820  
 gggaattca tgatccggga gaaatttgcc cactgc 36

<210> 821  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 821  
 gggtcagat caggagtttg agaccagcct ggc 33

<210> 822  
 <211> 675  
 <212> DNA  
 <213> Homo sapiens

<400> 822  
 atgcatcacc atcaccatca cacggccgag tccgataact tccagctgtc ccagggtggg 60  
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120  
 accgttcata tcgggcctac cgccttcctc ggcttggttg ttgtcgacaa caacggcaac 180  
 ggcgacgag tccaacgcgt ggtcgggagc gtcocggcgg caagtctcgg catctccacc 240  
 ggcgacgtga tcaccgcgt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300  
 gcgttaacg ggcacatcc cggtagcgtc atctcgggtga cctggcaaac caagtcgggc 360  
 ggcaacgcgt cagggaacgt gacattggcc gagggacccc cggccgaatt catgatccgg 420  
 gagaaatttg cccactgcac cgtgctaacc attgcacaca gattgaacac cattattgac 480  
 agcgacaaga taatggtttt agattcagga agactgaaag aatatgatga gccgtatggt 540  
 ttgctgcaaa ataaagagag cctattttac aagatgggtg aacaactggg caaggcagaa 600  
 gccgtgccc tcaactgaaac agcaaaacag agatggggtt tcaccatgtt ggccaggctg 660  
 gtctcaaaact cctga 675

<210> 823  
 <211> 291  
 <212> DNA  
 <213> Homo sapiens

306

&lt;400&gt; 823

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atgggggatcc gggagaaatt tgccactgc accgtgctaa ccattgcaca cagattgaac 60
accattatttg acagcgacaa gataatgggt ttagattcag gaagactgaa agaatatgat 120
gagccgtatg ttttgctgca aaataaagag agcctatttt acaagatggg gcaacaactg 180
ggcaaggcag aagccgctgc cctcactgaa acagcaaac agagatgggg tttcaccatg 240
ttggccaggc tggctcctc cctcctcag caccaccacc accaccactg a 291

```

&lt;210&gt; 824

&lt;211&gt; 1074

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 824

```

atgtcagcca ttgagagggt gtcagaggca atcgtcagca tccgaagaat ccagaccttt 60
ttgctacttg atgagatatt acagcgcaac cgtcagctgc cgtcagatgg taaaaagatg 120
gtgcatgtgc aggattttac tgcttttttg gataaggcat cagagacccc aactctacaa 180
ggccttttct ttactgtcag acctggcgaa ttgttagctg tggtcggccc cgtgggagca 240
gggaagtcat cactgttaag tgccgtgctc ggggaattgg cccaagtca cgggctgggc 300
agcgtgcatg gaagaattgc ctatgtgtct cagcagccct ggggtgttctc gggaactctg 360
aggagtaata ttttatttgg gaagaaatac gaaaaggaa gatatgaaa agtcataaag 420
gcttgtgctc tgaaaaagga tttacagctg ttggaggatg gtgatctgac tgtgatagga 480
gatcggggaa ccacgtgag tggaggcgag aaagcacggg taaaccttgc aagagcagtg 540
tatcaagatg ctgacatcta tctcctggac gatcctctca gtgcagtaga tgcggaagtt 600
agcagacact tggtcgaact gtgtatttgc caaattttgc atgagaagat cacaatttta 660
gtgactcatc agttgcagta cctcaaagct gcaagtcaga ttctgatatt gaaagatggg 720
aaaatgggtgc agaaggggac ttacactgag ttcctaaaat ctggtataga ttttggtctc 780
cttttaaga aggataatga ggaaagtga caacctccag ttccaggaa tcccacacta 840
aggaatcgta ccttctcaga gtcttcgggt tgggtctcaac aatcttctag accctccttg 900
aaagatgggt ctctggagag ccaagataca gagaatgtcc cagttacact atcagaggag 960
aaccgttctg aaggaaaagt tggttttcag gcctataaga attacttcag agctgggtgt 1020
cactggattg tcttcatttt ccttattctc gagcaccacc accaccacca ctga 1074

```

&lt;210&gt; 825

&lt;211&gt; 224

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 825

```

Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
                    5                      10                      15
Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
                20                      25                      30
Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
                35                      40                      45
Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
                50                      55                      60
Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
                65                      70                      75                      80
Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
                85                      90                      95
Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
                100                     105                     110
Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
                115                     120                     125
Leu Ala Glu Gly Pro Pro Ala Glu Phe Met Ile Arg Glu Lys Phe Ala
                130                     135                     140
His Cys Thr Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp

```

## 307

145					150					155					160
Ser	Asp	Lys	Ile	Met	Val	Leu	Asp	Ser	Gly	Arg	Leu	Lys	Glu	Tyr	Asp
				165					170						175
Glu	Pro	Tyr	Val	Leu	Leu	Gln	Asn	Lys	Glu	Ser	Leu	Phe	Tyr	Lys	Met
			180					185							190
Val	Gln	Gln	Leu	Gly	Lys	Ala	Glu	Ala	Ala	Ala	Leu	Thr	Glu	Thr	Ala
		195					200								205
Lys	Gln	Arg	Trp	Gly	Phe	Thr	Met	Leu	Ala	Arg	Leu	Val	Ser	Asn	Ser
	210					215					220				

&lt;210&gt; 826

&lt;211&gt; 357

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 826

Met	Ser	Ala	Ile	Glu	Arg	Val	Ser	Glu	Ala	Ile	Val	Ser	Ile	Arg	Arg
				5					10					15	
Ile	Gln	Thr	Phe	Leu	Leu	Leu	Asp	Glu	Ile	Ser	Gln	Arg	Asn	Arg	Gln
			20					25					30		
Leu	Pro	Ser	Asp	Gly	Lys	Lys	Met	Val	His	Val	Gln	Asp	Phe	Thr	Ala
		35					40					45			
Phe	Trp	Asp	Lys	Ala	Ser	Glu	Thr	Pro	Thr	Leu	Gln	Gly	Leu	Ser	Phe
	50					55					60				
Thr	Val	Arg	Pro	Gly	Glu	Leu	Leu	Ala	Val	Val	Gly	Pro	Val	Gly	Ala
	65				70				75						80
Gly	Lys	Ser	Ser	Leu	Leu	Ser	Ala	Val	Leu	Gly	Glu	Leu	Ala	Pro	Ser
			85					90						95	
His	Gly	Leu	Val	Ser	Val	His	Gly	Arg	Ile	Ala	Tyr	Val	Ser	Gln	Gln
		100						105						110	
Pro	Trp	Val	Phe	Ser	Gly	Thr	Leu	Arg	Ser	Asn	Ile	Leu	Phe	Gly	Lys
		115					120					125			
Lys	Tyr	Glu	Lys	Glu	Arg	Tyr	Glu	Lys	Val	Ile	Lys	Ala	Cys	Ala	Leu
	130					135					140				
Lys	Lys	Asp	Leu	Gln	Leu	Leu	Glu	Asp	Gly	Asp	Leu	Thr	Val	Ile	Gly
	145				150					155					160
Asp	Arg	Gly	Thr	Thr	Leu	Ser	Gly	Gly	Gln	Lys	Ala	Arg	Val	Asn	Leu
			165						170					175	
Ala	Arg	Ala	Val	Tyr	Gln	Asp	Ala	Asp	Ile	Tyr	Leu	Leu	Asp	Asp	Pro
			180				185							190	
Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg	His	Leu	Phe	Glu	Leu	Cys
		195					200					205			
Ile	Cys	Gln	Ile	Leu	His	Glu	Lys	Ile	Thr	Ile	Leu	Val	Thr	His	Gln
	210				215						220				
Leu	Gln	Tyr	Leu	Lys	Ala	Ala	Ser	Gln	Ile	Leu	Ile	Leu	Lys	Asp	Gly
	225				230					235					240
Lys	Met	Val	Gln	Lys	Gly	Thr	Tyr	Thr	Glu	Phe	Leu	Lys	Ser	Gly	Ile
				245					250						255
Asp	Phe	Gly	Ser	Leu	Leu	Lys	Lys	Asp	Asn	Glu	Glu	Ser	Glu	Gln	Pro
			260					265						270	
Pro	Val	Pro	Gly	Thr	Pro	Thr	Leu	Arg	Asn	Arg	Thr	Phe	Ser	Glu	Ser
		275					280					285			
Ser	Val	Trp	Ser	Gln	Gln	Ser	Ser	Arg	Pro	Ser	Leu	Lys	Asp	Gly	Ala
	290				295						300				
Leu	Glu	Ser	Gln	Asp	Thr	Glu	Asn	Val	Pro	Val	Thr	Leu	Ser	Glu	Glu
	305				310					315					320
Asn	Arg	Ser	Glu	Gly	Lys	Val	Gly	Phe	Gln	Ala	Tyr	Lys	Asn	Tyr	Phe

308

Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Glu His  
 325 330 335  
 340 345 350  
 His His His His His  
 355

<210> 827  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 827  
 Met Gly Ile Arg Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala  
 5 10 15  
 His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp  
 20 25 30  
 Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr Val Leu Leu Gln Asn  
 35 40 45  
 Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln Leu Gly Lys Ala Glu  
 50 55 60  
 Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg Trp Gly Phe Thr Met  
 65 70 75 80  
 Leu Ala Arg Leu Val Ser Asn Ser Leu Glu His His His His His His  
 85 90 95

<210> 828  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 828  
 cgcccatggg gatccgggag aaatttgccc actgc 35

<210> 829  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 829  
 cgcctcgagg gagtttgaga ccagcctggc caaca 35

<210> 830  
 <211> 38  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 830

309

gcatggacca tatgtcagcc attgagaggg tgtcagag 38

<210> 831  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 831  
 ccgctcgaga ataaggaaaa tgaagacaat ccag 34

<210> 832  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 832  
 gttgaattca tgcacgggcc ccaggtg 27

<210> 833  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 833  
 cccctcgagt cactatgggtc tgccctcttga 30

<210> 834  
 <211> 915  
 <212> DNA  
 <213> Homo sapiens

<400> 834  
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60  
 cagggatctg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120  
 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180  
 ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240  
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300  
 gcgcttaacg ggcatcatcc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360  
 ggcacgcgta cagggaacgt gacattggcc gagggacccc cgccgaatt catgcacggg 420  
 ccccaggtgc tggcacgctg ctccgagtggt gcttgtcctg ccttggctgc cacctctgcg 480  
 ggggtgcgtc tggaggggggt ggaccggcca ccaaccttac ccagtcaagg aagtggatgg 540  
 ccatgttccc acagcctgag tggctgccac ctgatggctg atggagcaaa ggccttagga 600  
 aaagcagatg gcccttggcc ctaccttttt gttagaagaa ctgatgttcc atgtcctgca 660  
 cgcagtgagg ttggtggctg tgccccagc tcctggcgcg ccctgcgaga ggtgactggt 720  
 tgctctttgg gccctcttgg ccttgcccag catgcacaag cctcagtgct actactgtgc 780

## 310

tacaaatgga gccatatagg ggaaacgagc agccatctca ggagcaaggt gtatgctgcc 840  
 ttggggggct ccagtccttg cctcaagggg cttatgtcac tgtgggcttc ttggttgtca 900  
 agaggcagac catag 915

<210> 835

<211> 304

<212> PRT

<213> Homo sapiens

<400> 835

Met	His	His	His	His	His	His	Thr	Ala	Ala	Ser	Asp	Asn	Phe	Gln	Leu
			5						10					15	
Ser	Gln	Gly	Gly	Gln	Gly	Phe	Ala	Ile	Pro	Ile	Gly	Gln	Ala	Met	Ala
			20					25					30		
Ile	Ala	Gly	Gln	Ile	Lys	Leu	Pro	Thr	Val	His	Ile	Gly	Pro	Thr	Ala
		35					40					45			
Phe	Leu	Gly	Leu	Gly	Val	Val	Asp	Asn	Asn	Gly	Asn	Gly	Ala	Arg	Val
	50					55				60					
Gln	Arg	Val	Val	Gly	Ser	Ala	Pro	Ala	Ala	Ser	Leu	Gly	Ile	Ser	Thr
65					70					75				80	
Gly	Asp	Val	Ile	Thr	Ala	Val	Asp	Gly	Ala	Pro	Ile	Asn	Ser	Ala	Thr
			85						90					95	
Ala	Met	Ala	Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser
			100					105					110		
Val	Thr	Trp	Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr
		115					120					125			
Leu	Ala	Glu	Gly	Pro	Pro	Ala	Glu	Phe	Met	His	Gly	Pro	Gln	Val	Leu
	130					135					140				
Ala	Arg	Cys	Ser	Glu	Cys	Ala	Cys	Pro	Ala	Leu	Ala	Ala	Thr	Ser	Ala
145					150					155				160	
Gly	Val	Arg	Leu	Glu	Gly	Val	Asp	Arg	Pro	Pro	Thr	Leu	Pro	Ser	Gln
			165						170					175	
Gly	Ser	Gly	Trp	Pro	Cys	Ser	His	Ser	Leu	Ser	Gly	Cys	His	Leu	Met
		180					185						190		
Ala	Asp	Gly	Ala	Lys	Ala	Leu	Gly	Lys	Ala	Asp	Gly	Pro	Trp	Pro	Tyr
	195						200					205			
Leu	Phe	Val	Arg	Arg	Thr	Asp	Val	Pro	Cys	Pro	Ala	Ala	Ser	Glu	Val
	210					215					220				
Gly	Gly	Cys	Ala	Pro	Ser	Ser	Trp	Arg	Ala	Leu	Ala	Glu	Val	Thr	Gly
225					230					235				240	
Cys	Ser	Leu	Gly	Pro	Leu	Gly	Leu	Ala	Gln	His	Ala	Gln	Ala	Ser	Val
			245						250					255	
Leu	Leu	Leu	Cys	Tyr	Lys	Trp	Ser	His	Ile	Gly	Glu	Thr	Ser	Ser	His
		260					265						270		
Leu	Arg	Ser	Lys	Val	Tyr	Ala	Ala	Phe	Gly	Gly	Ser	Ser	Pro	Cys	Leu
	275					280						285			
Lys	Gly	Leu	Met	Ser	Leu	Trp	Ala	Ser	Trp	Leu	Ser	Arg	Gly	Arg	Pro
	290					295					300				

<210> 836

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 836



311

cgaagtcacg tggaggccag cctc

24

<210> 837

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 837

cctgaccgaa ttcattaact ggcctggac

29

<210> 838

<211> 166

&lt;212&gt; PRT

<213> Homo sapiens

 $\langle 220 \rangle$ 

## <221> VARIANT

 $\langle 222 \rangle \quad (1) \dots (166)$ 

<223> Xaa = Any Amino Acid

<400> 838

[illegible]

<210> 839

<211> 504

<212> DNA

<213> Homo sapiens

<220>

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<221> misc_feature
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 $\langle 222 \rangle \quad (1) \dots (504)$ 

<223> n = A, T, C or G

312

<400> 839  
 atggggccatc atcatcatca tcacgtggag gccagcctct ccgtacggca cccagagtac 60  
 aacagaccct tgctcgctaa cgacctcatg ctcattcaagt tggacgaatc cgtgtccgag 120  
 tctgacacca tccggagcat cagcattgct tcgcagtgcc ctaccgcgga gaactcttgc 180  
 ctcgtttctg gctgggtctt gctggggaac ggcagaatgc ctaccgtgct gcagtgcgtg 240  
 aacgtgtcgg tgggtgtctga ggaggtctgc agtaagctct atgacccgct gtaccacccc 300  
 agcatgttct gcgcggcgag agggcaanac cagaangact cctgcaacgg tgactctggg 360  
 gggccccctga tctgcaacgg gtacttgcag ggccttgtgt ctttcggaaa agccccgtgt 420  
 ggccaagtgg gcgtgccagg tgtctacacc aacctctgca aattcactga gtggatagag 480  
 aaaaccgtcc aggcagttta atga 504

<210> 840  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 840  
 ctcagggttc cggagccgcg g 21

<210> 841  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 841  
 ctatagaatt cattaccaaa aagctgggct ccagc 35

<210> 842  
 <211> 241  
 <212> PRT  
 <213> Homo sapiens

<400> 842  
 Met Gln His His His His His Leu Arg Val Pro Glu Pro Arg Pro  
 1 5 10 15  
 Gly Glu Ala Lys Ala Glu Gly Ala Ala Pro Pro Thr Pro Ser Lys Pro  
 20 25 30  
 Leu Thr Ser Phe Leu Ile Gln Asp Ile Leu Arg Asp Gly Ala Gln Arg  
 35 40 45  
 Gln Gly Gly Arg Thr Ser Ser Gln Arg Gln Arg Asp Pro Glu Pro Glu  
 50 55 60  
 Pro Glu Pro Glu Pro Glu Gly Gly Arg Ser Arg Ala Gly Ala Gln Asn  
 65 70 75 80  
 Asp Gln Leu Ser Thr Gly Pro Arg Ala Ala Pro Glu Glu Ala Glu Thr  
 85 90 95  
 Leu Ala Glu Thr Glu Pro Glu Arg His Leu Gly Ser Tyr Leu Leu Asp  
 100 105 110  
 Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Glu Thr Pro Lys  
 115 120 125

## 313

Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln Val Ile  
 130 135 140  
 Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala Pro Glu  
 145 150 155 160  
 Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln Val Lys  
 165 170 175  
 Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln Leu Ser  
 180 185 190  
 Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala Leu Lys  
 195 200 205  
 Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn Ser Tyr  
 210 215 220  
 Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro Ala Phe  
 225 230 235 240  
 Trp

&lt;210&gt; 843

&lt;211&gt; 729

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 843

atgcagcatc	accaccatca	ccacctcagg	gttcaggagc	cgcgggcccg	ggaggcgaaa	60
gcgaggggg	ccgcgcgcgc	gaccccgctc	aagccgctca	cgcccttctc	catccaggac	120
atcctgcggg	acggcgcgca	gcggcaaggc	ggccgcacga	gcagccagag	acagcgcgac	180
ccggagccgg	agccagagcc	agagccagag	ggaggacgca	gccgcgcggg	ggcgcagAAC	240
gaccagctga	gcaccggggc	ccgcgcgcgc	ccggatgagg	ccgagacgct	ggcagagacc	300
gagccagaaa	ggcacttggg	gtcttatctg	ttggactctg	aaaacacttc	aggcgccctt	360
ccaaggcttc	cccaaaccac	taagcagccg	cagaagcgct	cccagagctgc	cttctccac	420
actcaggtga	tgcagttgga	gaggaagtgc	agccatcaga	agtacctgtc	ggcccctgaa	480
cgggcccacc	tggccaagaa	cctcaagctc	acggagaccc	aagtgaagat	atggttccag	540
aacagacgct	ataagactaa	gcgaaagcag	ctctcctcgg	agctgggaga	cttgagaag	600
cactcctttt	tgcgcggcct	gaaagaggag	gccttctccc	gggcctccct	ggtctccgtg	660
tataacagct	atccttacta	cccatacctg	cactgcgtgg	gcagctggag	cccagctttt	720
tggtaatga						729

&lt;210&gt; 844

&lt;211&gt; 27

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 844

ctactaagcg ctggagtggag ggatcag

27

&lt;210&gt; 845

&lt;211&gt; 33

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

314

<400> 845  
catcgagaat tcactactct ctgactagat gtc

33

<210> 846  
<211> 161  
<212> PRT  
<213> Homo sapiens

<400> 846  
Met Gln His His His His His His Ala Gly Val Arg Asp Gln Gly Gln  
1 5 10 15  
Gly Ala Arg Trp Pro His Thr Gly Lys Arg Gly Pro Leu Leu Gln Gly  
20 25 30  
Leu Thr Trp Ala Thr Gly Gly His Cys Phe Ser Ser Glu Glu Ser Gly  
35 40 45  
Ala Val Asp Gly Ala Gly Gln Lys Lys Asp Arg Ala Trp Leu Arg Cys  
50 55 60  
Pro Glu Ala Val Ala Gly Phe Pro Leu Gly Ser Asp Cys Arg Glu Gly  
65 70 75 80  
Gly Arg Gln Gly Cys Gly Gly Ser Asp Asp Glu Asp Asp Leu Gly Val  
85 90 95  
Ala Pro Gly Leu Ala Pro Ala Trp Ala Leu Thr Gln Pro Pro Ser Gln  
100 105 110  
Ser Pro Gly Pro Gln Ser Leu Pro Ser Thr Pro Ser Ser Ile Trp Pro  
115 120 125  
Gln Trp Val Ile Leu Ile Thr Glu Leu Thr Ile Pro Ser Pro Ala His  
130 135 140  
Gly Pro Pro Trp Leu Pro Asn Ala Leu Glu Arg Gly His Leu Val Arg  
145 150 155 160  
Glu

<210> 847  
<211> 489  
<212> DNA  
<213> Homo sapiens

<400> 847  
atgcagcatc accaccatca ccacgctgga gtgagggatc agggggcaggg cgcgagatgg 60  
cctcacacag ggaagagagg gccctcctg cagggcctca cctgggccac aggaggacac 120  
tgcttttcct ctgaggagtc aggagctgtg gatggtgctg gacagaagaa ggacagggcc 180  
tggctcaggt gtccagaggc tgtogctggc ttcccttttg gatcagactg cagggaggga 240  
gggcggcagg gttgtggggg gactgacgat gaggatgacc tgggggtggc tccaggcctt 300  
gccctgcct gggccctcac ccagcctccc tcacagtctc ctggccctca gtctctcccc 360  
tccactccat cctccatctg gcctcagtgg gtcattctga tcaactgaact gaccataccc 420  
agccctgccc acggccctcc atggctcccc aatgccctgg agaggggaca tctagtcaga 480  
gagtagtga 489

<210> 848  
<211> 132  
<212> PRT  
<213> Homo sapiens

<400> 848  
Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe

## 315

1	5	10	15
Ala Ile Pro	Ile Gly Gln Ala Met	Ala Ile Ala Gly Gln Ile Arg Ser	
	20	25	30
Gly Gly Gly	Ser Pro Thr Val His	Ile Gly Pro Thr Ala Phe Leu Gly	
	35	40	45
Leu Gly Val Val	Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val		
	50	55	60
Val Gly Ser Ala	Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val		
	65	70	75
Ile Thr Ala Val	Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala		
	85	90	95
Asp Ala Leu Asn	Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp		
	100	105	110
Gln Thr Lys Ser	Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu		
	115	120	125
Gly Pro Pro Ala			
	130		

<210> 849  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 849  
 ggggaattca tcacctatgt gccgcctctg c

31

<210> 850  
 <211> 40  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 850  
 gggctcgagt cactcgccca cgaaatccgt gtaaaacagc

40

<210> 851  
 <211> 1203  
 <212> DNA  
 <213> Homo sapiens

<400> 851  
 atgcatcacc atcaccatca cacggcgcg tccgataact tccagctgtc ccagggtggg 60  
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120  
 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180  
 ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240  
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300  
 gcgcttaacg ggcacatcc cggtgacgtc atctcgggtg cctggcaaac caagtcgggc 360  
 ggcacgcgta cagggaaacgt gacattggcc gagggacccc cggccgaatt catcacctat 420  
 gtgccgcctc tgctgctgga agtgggggta gaggagaagt tcatgaccat ggtgctgggc 480  
 attggtccag tgctgggcct ggtctgtgtc ccgctcctag gctcagccag tgaccactgg 540  
 cgtggacgct atggccgcgc cgggccttc atctgggcac tgtccttggg catcctgctg 600

316

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agcctctttc tcatcccaag ggccggctgg ctagcagggc tgctgtgccc ggatcccagg 660
ccoctggagc tggcactgct catcctgggc gtggggctgc tggacttctg tggccagggtg 720
tgcttcactc cactggaggc cctgctctct gacctcttcc gggacccgga ccactgtcgc 780
caggcctact ctgtctatgc cttcatgata agtcttgggg gctgcctggg ctacctcctg 840
cctgccattg actgggacac cagtgccttg gccccctacc tgggcaccca ggaggagtgc 900
ctctttggcc tgctcacctt catcttcctc acctgcgtag cagccacact gctgggtggct 960
gaggaggcag cgctgggccc caccgagcca gcagaagggc tgcgggcccc ctcttgtcgc 1020
ccccactgct gtccatgccg ggcccgtttg gctttccgga acctgggcgc cctgcttccc 1080
cggtgcacc agctgtgctg ccgcatgccc cgcaccctgc gccggctctt cgtggctgag 1140
ctgtgcagct ggatggcact catgaccttc acgctgtttt acacggattt cgtgggcgag 1200
tga 1203

```

&lt;210&gt; 852

&lt;211&gt; 400

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 852

```

Met His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
          5          10          15
Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
          20          25          30
Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
          35          40          45
Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
          50          55          60
Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
          65          70          75          80
Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
          85          90          95
Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
          100          105          110
Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
          115          120          125
Leu Ala Glu Gly Pro Pro Ala Glu Phe Ile Thr Tyr Val Pro Pro Leu
          130          135          140
Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr Met Val Leu Gly
          145          150          155          160
Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala
          165          170          175
Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
          180          185          190
Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala
          195          200          205
Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu
          210          215          220
Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val
          225          230          235          240
Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro
          245          250          255
Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu
          260          265          270
Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser
          275          280          285
Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu
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Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala
          305          310          315          320

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## 317

Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala  
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 Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe  
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 Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg  
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 Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp  
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318

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319

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321

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&lt;400&gt; 875

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&lt;210&gt; 876

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 876

Gly Val Leu Val His Pro Gln Trp Val  
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&lt;210&gt; 877

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 877

Val Leu Val His Pro Gln Trp Val Leu  
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&lt;210&gt; 878

&lt;211&gt; 1195

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 878

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&lt;210&gt; 879

&lt;211&gt; 339

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

322

&lt;400&gt; 879

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 Gly Glu Thr Ser Met Leu Lys Arg Pro Val Leu Leu His Leu His Gln  
                                   35                                  40                                  45  
 Thr Ala His Ala Asp Glu Phe Asp Cys Pro Ser Glu Leu Gln His Thr  
                                   50                                  55                                  60  
 Gln Glu Leu Phe Pro Gln Trp His Leu Pro Ile Lys Ile Ala Ala Ile  
                                   65                                  70                                  75                                  80  
 Ile Ala Ser Leu Thr Phe Leu Tyr Thr Leu Leu Arg Glu Val Ile His  
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 Pro Leu Ala Thr Ser His Gln Gln Tyr Phe Tyr Lys Ile Pro Ile Leu  
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 Val Tyr Leu Pro Gly Val Ile Ala Ala Ile Val Gln Leu His Asn Gly  
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 Arg Lys Gln Phe Gly Leu Leu Ser Phe Phe Phe Ala Val Leu His Ala  
                                   165                                  170                                  175  
 Ile Tyr Ser Leu Ser Tyr Pro Met Arg Arg Ser Tyr Arg Tyr Lys Leu  
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 Ala Trp Asn Lys Trp Ile Asp Ile Lys Gln Phe Val Trp Tyr Thr Pro  
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 Lys Ser Ile Leu Phe Leu Pro Cys Leu Arg Lys Lys Ile Leu Lys Ile  
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 Ser Gln Leu

&lt;210&gt; 880

&lt;211&gt; 2172

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 880

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323

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&lt;210&gt; 881

&lt;211&gt; 2455

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 881

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324

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&lt;211&gt; 2455

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 882

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325

```

tttcagttgc ttttctaatt ctctcttatt gtttacctca aaatcttcct gaggtctcgc 1920
ttccttttaa aatccttgtc tactttgcag catcactctg acactocatt gattcctcag 1980
cacctactga ctacacggtt aggagtgcaa gggtagaatt catgttttat tcatcttttg 2040
gtctgtagca cccagcaaag tgctcagtaa atgcgcagta attgatttga cctctgaaca 2100
aatacacact gtactaagaa tctacacacc gaaagacaaa aacaagacaa atttgagtgc 2160
tacagggtgc acgcttggca tcacacatgt gcctgtgtat tcctctaggt ggttaccagg 2220
agctctgcca ctgcatgtcc actagtgcag ggttcgctcc accaccccag ctgggtagcc 2280
gctgctctca cataaggggt ccaattaaaa ttgccaggaa taaattcccc cggactttga 2340
cttctcaaga gctaagaagg tttgctgagt attctggcat gatgtttggt gatcaacaa 2400
ctgctggcca aaaatgatga gtatttcccc ctcttgctga agatgtgctc catac 2455

```

&lt;210&gt; 883

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 883

```

Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn
              5              10              15
His Gly Gly Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
              20              25              30
Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
              35              40              45
Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
              50              55              60

```

&lt;210&gt; 884

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 884

```

Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg
              5              10              15
Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
              20              25              30
Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
              35              40              45
Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
              50              55              60
Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
              65              70              75              80
Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
              85              90              95
Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro
              100              105              110
Lys Cys Trp Gly Tyr Arg His Lys Pro Pro His Pro Ala Cys His Ile
              115              120              125
Leu Leu Asn Tyr Gln Val Ser
              130              135

```

&lt;210&gt; 885

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 885

```

Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln

```

## 326

```

          5          10          15
Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His
          20          25          30
Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
          35          40          45
Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln
          50          55          60
Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu
          65          70          75

```

<210> 886  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

```

<400> 886
Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
          5          10          15
Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
          20          25          30
Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
          35          40          45
Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
          50          55          60

```

<210> 887  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

```

<400> 887
Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
          5          10          15
Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
          20          25          30
Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
          35          40          45
Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
          50          55          60
Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
          65          70          75

```

<210> 888  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

```

<400> 888
Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
          5          10          15
Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
          20          25          30
Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly
          35          40          45
Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
          50          55          60
Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
          65          70          75

```



327

<210> 889  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 889  
 Met Leu Leu His Ser Ser Leu Val Asn Arg Ala Arg Leu Cys Leu Lys  
                                   5                                  10                                  15  
 Asn Lys Gln Ile Asn Lys Gln Thr Asn Lys Thr Glu Arg Phe Cys Cys  
                                   20                                  25                                  30  
 Asn Val Gln Gly Ala Ile Cys Ser Phe Lys Lys Ile Ile Phe Gly Gln  
                                   35                                  40                                  45  
 Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala Lys Val  
                                   50                                  55                                  60  
 Gly Gly Ser Phe Glu Val Arg Ser Leu Arg Ser Ala Trp Pro Thr Trp  
                                   65                                  70                                  75                                  80

<210> 890  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 890  
 Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro His Asn Pro  
                                   5                                  10                                  15  
 Ile Thr Ser His Gln Val Ser Ser Asp Thr Trp Asp Trp Val Gly Thr  
                                   20                                  25                                  30  
 Gln Ser Gln Thr Val Ser Asp Ala Ala Gly Ala Gly Asp Thr Glu Thr  
                                   35                                  40                                  45  
 Thr Gln Thr Trp Cys Leu Cys His Ser Ser Gly Leu Cys Leu Ser Pro  
                                   50                                  55                                  60  
 Gly Pro Pro Ser Pro Ser Met Val  
                                   65                                  70

<210> 891  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 891  
 Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln  
                                   5                                  10                                  15  
 Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His  
                                   20                                  25                                  30  
 Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro  
                                   35                                  40                                  45  
 Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln  
                                   50                                  55                                  60  
 Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu  
                                   65                                  70                                  75

<210> 892  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 892

328

Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly  
                   5                  10                  15  
 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser  
                   20                  25                  30  
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser  
                   35                  40                  45  
 Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe  
                   50                  55                  60

&lt;210&gt; 893

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 893

Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys  
                   5                  10                  15  
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg  
                   20                  25                  30  
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
                   35                  40                  45  
 Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly  
                   50                  55                  60  
 Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
                   65                  70                  75

&lt;210&gt; 894

&lt;211&gt; 2479

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 894

gtcatattga acattccaga tacctatcat tactcgatgc tgttgataac agcaagatgg 60  
 ctttgaactc aggggtcacca ccagctattg gaccttacta tgaaaaccat ggataccaac 120  
 cggaaaaccc ctatcccgcga cagccacttg tgggtcccccac tgtctacgag gtgcatccgg 180  
 ctccagtacta cccgtccccc gtgccccagt acgccccgag ggtcctgacg caggcttcca 240  
 acccgcgtcgt ctgcacgcag cccaaatccc catccgggac agtgtgcacc tcaaagacta 300  
 agaaaacact gtgcatcacc ttgacccttg ggaccttcct cgtgggagct gcgctggccg 360  
 ctggcctact ctggaagtgc atgggcagca agtgctccaa ctctgggata gagtgcgact 420  
 cctcaggtac ctgcatcaac ccctctaact ggtgtgatgg cgtgtcacac tgccccggcg 480  
 gggaggacga gaatcggtgt gttcgcctct acggaccaa cttcatcctt cagatgtact 540  
 catctcagag gaagtccttg caccctgtgt gccaaagacga ctggaacgag aactacgggc 600  
 gggcggcctg cagggacatg ggctataaga ataattttta ctctagccaa ggaatagtgg 660  
 atgacagcgg atccaccagc tttatgaaac tgaacacaag tgccggcaat gtcgatatct 720  
 ataaaaaact gtaccacagt gatgcctggt cttcaaaaagc agtgggttct ttacgctggt 780  
 tagcctgcgg ggtcaacttg aactcaagcc gccagagcag gatcgtgggc ggtgagagcg 840  
 cgctcccggg ggcctggccc tggcaggtca gcctgcacgt ccagaacgtc cacgtgtgcg 900  
 gaggtcccat catcaccccc gagtggatcg tgacagccgc ccactgcgtg gaaaaacctc 960  
 ttaacaatcc atggcatttg acggcatttg cggggatttt gagacaatct ttcatgttct 1020  
 atggagccgg ataccaagta caaaaagtga tttctcatcc aaattatgac tccaagacca 1080  
 agaacaatga cattgcgctg atgaagctgc agaagcctct gactttcaac gacctagtga 1140  
 aaccagtgtg tctgccaac ccaggcatga tgctgcagcc agaacagctc tgctggattt 1200  
 ccgggtgggg ggccaccgag gagaaagga agacctcaga agtgctgaac gctgccaagg 1260  
 tgcttctcat tgagacacag agatgcaaca gcagatatgt ctatgacaac ctgatcacac 1320  
 cagccatgat ctgtgccggc ttccctgcagg ggaacgtcga ttcttgccag ggtgacagt 1380  
 gagggcctct ggtcacttcg aacaacaata tctggtggct gataggggat acaagctggg 1440  
 gttctggctg tgccaaagct tacagaccg gagtgtacgg gaatgtgatg gtattcacgg 1500  
 actggattta tcgacaaatg aaggcaaacg gctaattccac atggtcttcg tccttgacgt 1560

329

```

cgtttttacaa gaaaacaatg gggctggttt tgcttccccg tgcattgattt actcttagag 1620
atgatttcaga ggtcacttca tttttattaa acagtgaact tgtctggctt tggcactctc 1680
tgccatactg tgcaggctgc agtggctccc ctgcccagcc tgcctccctt aacctctgtt 1740
ccgcaagggg tgatggccgg ctggttgtgg gcactggcgg tcaattgtgg aaggaagagg 1800
gttggagggt gccccattg agatcttcct gctgagtcct ttccaggggc caattttgga 1860
tgagcatgga gctgtcactt ctcagctgct ggatgacttg agatgaaaaa ggagagacat 1920
ggaaagggag acagccaggt ggcacctgca gcggctgccc tctggggcca cttggtagtg 1980
tccccagcct acttcacaag gggattttgc tgatgggttc ttagagcctt agcagccctg 2040
gatggtggcc agaaataaag ggaccagccc ttcatgggtg gtgacgtggt agtcacttgt 2100
aaggggaaca gaaacatttt tgttcttatg ggggtgagaat atagacagtg cccttggtgc 2160
gaggggaagca attgaaaagg aacttgccct gagcactcct ggtgcaggtc tccacctgca 2220
cattgggtgg ggctcctggg agggagactc agccttcctc ctcactctcc ctgacctgca 2280
tcctagcacc ctggagagtg aatgccccctt ggtccctggc agggcgccaa gtttggcacc 2340
atgtcggcct cttcaggcct gatagtcatt ggaaattgag gtccatgggg gaaatcaagg 2400
atgctcagtt taaggtagac tgttttocatg ttatgtttct acacattgat ggtggtgacc 2460
ctgagttcaa agccactctt                                     2479

```

&lt;210&gt; 895

&lt;211&gt; 492

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 895

```

Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
      5                               10                      15
Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
      20                               25                      30
Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
      35                               40                      45
Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
      50                               55                      60
Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
      65                               70                      75                      80
Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
      85                               90                      95
Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
      100                              105                     110
Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
      115                              120                     125
Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
      130                              135                     140
Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met
      145                              150                     155                     160
Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
      165                              170                     175
Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
      180                              185                     190
Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
      195                              200                     205
Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys
      210                              215                     220
Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg
      225                              230                     235                     240
Cys Leu Ala Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile
      245                              250                     255
Val Gly Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser
      260                              265                     270
Leu His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro

```

330

275 280 285  
 Glu Trp Ile Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn  
 290 295 300  
 Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met  
 305 310 315 320  
 Phe Tyr Gly Ala Gly Tyr Gln Val Gln Lys Val Ile Ser His Pro Asn  
 325 330 335  
 Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln  
 340 345 350  
 Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn  
 355 360 365  
 Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp  
 370 375 380  
 Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala  
 385 390 395 400  
 Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr  
 405 410 415  
 Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly  
 420 425 430  
 Asn Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser  
 435 440 445  
 Asn Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly  
 450 455 460  
 Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe  
 465 470 475 480  
 Thr Asp Trp Ile Tyr Arg Gln Met Lys Ala Asn Gly  
 485 490

<210> 896  
 <211> 683  
 <212> DNA  
 <213> Homo sapiens

<400> 896  
 gtcattattga acattccaga tacctatcat tactcgatgc tgttgataac agcaagatgg 60  
 ctttgaactc aggttcacca ccagctattg gaccttacta tgaaaaccat ggataccaac 120  
 cggaaaaccc ctatcccgcg cagcccactg tgggtcccccac tgtctacgag gtgcatccgg 180  
 ctcagtacta cccgtccccc gtgccccagt acgccccgag ggtcctgacg caggcttcca 240  
 accccgtcgt ctgcacgcag cccaaatccc catccgggac agtgtgcacc tcaaagacta 300  
 agaaagcact gtgcatcaacc ttgaccctgg ggaccttcct cgtgggagct gcgctggccg 360  
 ctggcctact ctggaagttc atgggcagca agtgctccaa ctctgggata gagtgcgact 420  
 cctcaggtac ctgcatcaac ccctctaact ggtgtgatgg cgtgtcacac tgccccggcg 480  
 gggaggacga gaatcgggtg gttcgcctct acggaccaa cttcatcctt cagatgtact 540  
 catctcagag gaagtcctgg caccctgtgt gccaaagacga ctggaacgag aactacgggc 600  
 gggcggcctg caggacatg ggctataaga ataattttta ctctagccaa ggaatagtgg 660  
 atgacagcgg atccaccagc ttt 683

<210> 897  
 <211> 209  
 <212> PRT  
 <213> Homo sapiens

<400> 897  
 Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu  
 1 5 10 15

331

Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val  
                   20                  25                  30  
 Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro  
                   35                  40                  45  
 Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val  
                   50                  55                  60  
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys  
 65                  70                  75                  80  
 Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val  
                   85                  90                  95  
 Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys  
                   100                  105                  110  
 Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn  
                   115                  120                  125  
 Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp  
                   130                  135                  140  
 Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met  
 145                  150                  155                  160  
 Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp  
                   165                  170                  175  
 Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn  
                   180                  185                  190  
 Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser  
                   195                  200                  205  
 Phe

<210> 898  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 898  
 Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr  
   1                  5                  10                  15  
 Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg  
                   20                  25

<210> 899  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 899  
 ggatccgccg ccaccatgct actttctagc ctgct

35

<210> 900  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 900

332

gtcgactcag ctggaccaca gccgcag

27

&lt;210&gt; 901

&lt;211&gt; 34

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 901

ggatccgccg ccaccatggg ctgcaggctg ctct

34

&lt;210&gt; 902

&lt;211&gt; 27

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 902

gtcgactcag aaatcctttc tottgac

27

&lt;210&gt; 903

&lt;211&gt; 936

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...()

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 903

```

atgggctgca ggctgntctg ctgtgcgggt ctctgtctcc tgggagcggt ccccatggaa 60
acgggagtta cgcagacacc aagacacctg gtcatgggaa tgacaaataa gaagtctttg 120
aaatgtgaac aacatctggg tcataacgct atgtattggt acaagcaaag tgctaagaag 180
ccactggagc tcatgtttgt ctacagtctt gaagaacggg ttgaaaacaa cagtgtgcca 240
agtcgcttct cacctgaatg cccaacagc tctcacttat tccttcacct acacaccctg 300
cagccagaag actcggccct gtatctctgc gccagcagcc aagaccggac aagcagctcc 360
tacgagcagt acttcgggcc gggcaaccagg ctcacggtca cagaggacct gaaaaacgtg 420
ttcccacccg aggtcgctgt gtttgagcca tcagaagcag agatctccca caccctaaag 480
gccacactgg tgtgcctggc cacaggcttc taccctgacc acgtggagct gagctggtgg 540
gtgaatggga aggaggtgca cagtgggggtc agcacagacc cgcagccctt caaggagcag 600
ccgcccctca atgactccag atactgcctg agcagccgcc tgagggtctc ggccaccttc 660
tggcagaacc cccgcaacca ctccgctgt caagtccagt tctacgggct ctcgagaaat 720
gacgagtgga cccaggatag ggccaaacct gtcacccaga tcgtcagcgc cgaggcctgg 780
ggtagagcag actgtggctt cacctccgag tcttaccagc aaggggtcct gtctgccacc 840
atcctctatg agatcttgct agggaaggcc acctgtatg ccgtgctggt cagtgccttc 900
gtgctgatgg ccatggtcaa gagaaaggat ttctga 936

```

&lt;210&gt; 904

&lt;211&gt; 834

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```
<220>
<221> misc_feature
<222> (1)...()
<223> n = A,T,C or G
```

<400> 904						
atgtcacttt	ctagcctgct	naaggtggtc	acagcttcac	tgtgggctagg	acctgggcatt	60
gcccagaaga	taactcaaac	ccaaccagga	atgttcgtgc	agggaaaagga	ggctgtgact	120
ctggactgca	caatgacac	cagtgatcaa	agttatggtc	tcttctggta	caagcagcc	180
agcagtgggg	aaatgatttt	tcttatttat	caggggtcct	atgacgagca	aaatgcaaca	240
gaaggctcgct	actcattgaa	tttcocagaag	gcaagaaaat	ccgccaacct	tgtcatctcc	300
gcttcacaac	tgggggactc	agcaatgtat	ttctgtgcaa	tgagagaggg	cgcgggagga	360
ggaacacaac	tcacctttgg	gcagggcact	cagctaaaag	tggaaactcaa	tatccagaac	420
ctgcaccctg	ccgtgtacca	gactgagac	tctaaatcca	ggacaagtc	tgtctgccta	480
ttcacccgatt	ttgattctca	aacaaatgtg	tcacaaagta	aggaattctga	tgtgtatatc	540
acagacaaaa	ctgtgctaga	catgaggtct	atggacttca	agagcaacag	tgctgtggcc	600
tggagcaaca	aatctgactt	tgcattgtgca	aacgccttca	acaacagcat	tattccagaa	660
gacaccttct	tccccagccc	agaaaagttcc	tgtgatgtca	agctgggtcg	gaaaagcttt	720
gaaacagata	cgaacctaaa	ctttcaaaac	ctgtcagtga	tggggtccg	aatcctcctc	780
ctgaaagtgg	ccgggtttaa	tctgctcatg	acgctgcggc	tgtggtccag	ctga	834

```
<210> 905
<211> 311
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> variant  
<222> (1)...(311)  
<223> Xaa = Any amino acid
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<400>	905															
Met	Gly	Cys	Arg	Leu	Xaa	Cys	Cys	Ala	Val	Leu	Cys	Leu	Leu	Gly	Ala	
				5					10					15		
Val	Pro	Met	Glu	Thr	Gly	Val	Thr	Gln	Thr	Pro	Arg	His	Leu	Val	Met	
			20					25					30			
Gly	Met	Thr	Asn	Lys	Lys	Ser	Leu	Lys	Cys	Glu	Gln	His	Leu	Gly	His	
		35					40					45				
Asn	Ala	Met	Tyr	Trp	Tyr	Lys	Gln	Ser	Ala	Lys	Lys	Pro	Leu	Glu	Leu	
	50					55					60					
Met	Phe	Val	Tyr	Ser	Leu	Glu	Glu	Arg	Val	Glu	Asn	Asn	Ser	Val	Pro	
	65				70					75					80	
Ser	Arg	Phe	Ser	Pro	Glu	Cys	Pro	Asn	Ser	Ser	His	Leu	Phe	Leu	His	
				85					90					95		
Leu	His	Thr	Leu	Gln	Pro	Glu	Asp	Ser	Ala	Leu	Tyr	Leu	Cys	Ala	Ser	
			100					105					110			
Ser	Gln	Asp	Arg	Thr	Ser	Ser	Ser	Tyr	Glu	Gln	Tyr	Phe	Gly	Pro	Gly	
		115					120					125				
Thr	Arg	Leu	Thr	Val	Thr	Glu	Asp	Leu	Lys	Asn	Val	Phe	Pro	Pro	Glu	
	130					135					140					
Val	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln	Lys	
145					150					155					160	
Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Tyr	Pro	Asp	His	Val	Glu	
				165					170					175		
Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser	Thr	
			180					185					190			
Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Asn	Asp	Ser	Arg	Tyr	
		195				200						205				

334

Cys Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro  
 210 215 220  
 Arg Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn  
 225 230 235 240  
 Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser  
 245 250 255  
 Ala Glu Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr  
 260 265 270  
 Gln Gln Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly  
 275 280 285  
 Lys Ala Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala  
 290 295 300  
 Met Val Lys Arg Lys Asp Phe  
 305 310

<210> 906  
 <211> 277  
 <212> PRT  
 <213> Homo sapiens

<400> 906  
 Met Ser Leu Ser Ser Leu Leu Lys Val Val Thr Ala Ser Leu Trp Leu  
 5 10 15  
 Gly Pro Gly Ile Ala Gln Lys Ile Thr Gln Thr Gln Pro Gly Met Phe  
 20 25 30  
 Val Gln Glu Lys Glu Ala Val Thr Leu Asp Cys Thr Tyr Asp Thr Ser  
 35 40 45  
 Asp Gln Ser Tyr Gly Leu Phe Trp Tyr Lys Gln Pro Ser Ser Gly Glu  
 50 55 60  
 Met Ile Phe Leu Ile Tyr Gln Gly Ser Tyr Asp Glu Gln Asn Ala Thr  
 65 70 75 80  
 Glu Gly Arg Tyr Ser Leu Asn Phe Gln Lys Ala Arg Lys Ser Ala Asn  
 85 90 95  
 Leu Val Ile Ser Ala Ser Gln Leu Gly Asp Ser Ala Met Tyr Phe Cys  
 100 105 110  
 Ala Met Arg Glu Gly Ala Gly Gly Gly Asn Lys Leu Thr Phe Gly Thr  
 115 120 125  
 Gly Thr Gln Leu Lys Val Glu Leu Asn Ile Gln Asn Pro Asp Pro Ala  
 130 135 140  
 Val Tyr Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu  
 145 150 155 160  
 Phe Thr Asp Phe Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser  
 165 170 175  
 Asp Val Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp  
 180 185 190  
 Phe Lys Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala  
 195 200 205  
 Cys Ala Asn Ala Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe  
 210 215 220  
 Pro Ser Pro Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe  
 225 230 235 240  
 Glu Thr Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe  
 245 250 255  
 Arg Ile Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu  
 260 265 270  
 Arg Leu Trp Ser Ser  
 275



335

<210> 907  
 <211> 1536  
 <212> DNA  
 <213> Homo sapiens

<400> 907  
 atgtacaacc tgttgctgtc ctacgacaga catggggacc acctgcagcc cctggacctc 60  
 gtgcccatac accaggtctt cacccttttc aagctggctg gactggaggg taacactgtg 120  
 atgtttcagc acctgatgca gaagcggagc cacacccagt ggacgtatgg accactgacc 180  
 tcgactctct atgacctcac agagatcgac tctcagggg atgagcagtc cctgctggaa 240  
 cttatcatca ccaccaagaa gcgggaggct cgccagatcc tggaccagac gccggtgaag 300  
 gagctggtga gcctcaagtg gaagcggtag gggcggccgt acttctgcat gctgggtgcc 360  
 atatatctgc tgtacatcat ctgcttcacc atgtgctgca tctaccgcc cctcaagccc 420  
 aggaccaata accgcacgag ccccgggac aacacctct tacagcagaa gctacttcag 480  
 gaagcctaca tgacccttaa ggacgatata cggttggtcg gggagctggt gactgtcatt 540  
 ggggctatca tcatcctgct ggtagaggtt ccagacatct tcagaatggg ggtcactcgc 600  
 ttctttggac agaccatcct tgggggcca ttccatgtcc tcatcatcac ctatgocctc 660  
 atggtgctgg tgaccatggt gatgcggctc atcagtcca gcggggaggt ggtacccatg 720  
 tcctttgcac tcgtgctggg ctggtgcaac gtcattgtact tcgcccagg attccagatg 780  
 ctaggccctc tcaccatcat gattcagaag atgatttttg gcgacctgat gcgattctgc 840  
 tggctgatgg ctgtggtcat cctgggcttt gcttcagcct tctatatcat cttccagaca 900  
 gaggaccccg aggagctagg ccacttctac gactaccca tggccctgtt cagcaccttc 960  
 gagctgttcc ttaccatcat cgatggcca gccaaactaca acgtggacct gcccttcatt 1020  
 tacagcatca cctatgctgc ctttgccatc atcgccacac tgctcatgct caacctcctc 1080  
 attgccattg tgggcgacac tcactggcga gtggccatg agcgggatga gctgtggagg 1140  
 gccagattg tggccaccac ggtgatgctg gagcggaaag tgccctcgct cctgtggcct 1200  
 cgctccggga tctgaggacg ggagtatggc ctgggagacc gctggttccct gcgggtggaa 1260  
 gacaggcaag atctcaaccg gcagcggatc caacgctacg cacaggcctt ccacaccogg 1320  
 ggctctgagg atttggacaa agactcagtg gaaaaactag agctgggctg tcccttcagg 1380  
 cccacacctg cccttcctat gccctcagtg tctcgaagta cctcccgag cagtgccaat 1440  
 tgggaaaggc ttgggcaagg gacctgagg agagacctgc gtgggataat caacaggggt 1500  
 ctggaggacg gggagagctg ggaatatcag atctga 1536

<210> 908  
 <211> 1533  
 <212> DNA  
 <213> Homo sapiens

<400> 908  
 atgtacaacc tgttgctgtc ctacgacaga catggggacc acctgcagcc cctggacctc 60  
 gtgcccatac accaggtctt cacccttttc aagctggctg gactggaggg taacactgtg 120  
 atgtttcagc acctgatgca gaagcggagc cacacccagt ggacgtatgg accactgacc 180  
 tcgactctct atgacctcac agagatcgac tctcagggg atgagcagtc cctgctggaa 240  
 cttatcatca ccaccaagaa gcgggaggct cgccagatcc tggaccagac gccggtgaag 300  
 gagctggtga gcctcaagtg gaagcggtag gggcggccgt acttctgcat gctgggtgcc 360  
 atatatctgc tgtacatcat ctgcttcacc atgtgctgca tctaccgcc cctcaagccc 420  
 aggaccaata accgcacgag ccccgggac aacacctct tacagcagaa gctacttcag 480  
 gaagcctaca tgacccttaa ggacgatata cggttggtcg gggagctggt gactgtcatt 540  
 ggggctatca tcatcctgct ggtagaggtt ccagacatct tcagaatggg ggtcactcgc 600  
 ttctttggac agaccatcct tgggggcca ttccatgtcc tcatcatcac ctatgocctc 660  
 atggtgctgg tgaccatggt gatgcggctc atcagtcca gcggggaggt ggtacccatg 720  
 tcctttgcac tcgtgctggg ctggtgcaac gtcattgtact tcgcccagg attccagatg 780  
 ctaggccctc tcaccatcat gattcagaag atgatttttg gcgacctgat gcgattctgc 840  
 tggctgatgg ctgtggtcat cctgggcttt gcttcagcct tctatatcat cttccagaca 900  
 gaggaccccg aggagctagg ccacttctac gactaccca tggccctgtt cagcaccttc 960  
 gagctgttcc ttaccatcat cgatggcca gccaaactaca acgtggacct gcccttcatt 1020  
 tacagcatca cctatgctgc ctttgccatc atcgccacac tgctcatgct caacctcctc 1080

336

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attgccatga tgggcgacac tcaactggcga gtggcccatg agcgggatga gctgtggagg 1140
gccagattg tggccaccac ggtgatgctg gagcggaagc tgcctcgtg cctgtggcct 1200
cgctccggga tctgcggacg ggagtatggc ctgggagacc gctggttcct gcgggtggaa 1260
gacaggcaag atctcaaccg gcagcggatc caacgctacg cacaggcctt ccacacccgg 1320
ggctctgagg atttggacaa agactcagtg gaaaaactag agctgggctg tcccttcagc 1380
ccccacctgt cccttcctat gccctcagtg tctcgaagta cctcccgcag cagtgccaat 1440
tgggaaaggc ttcggcaagg gaccctgagg agagacctgc gtgggataat caacaggggt 1500
ctggaggacg gggagagctg ggaatatcag atc 1533

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&lt;210&gt; 909

&lt;211&gt; 511

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 909

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Met Tyr Asn Leu Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln
                    5                      10                      15
Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu
                    20                      25                      30
Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys
                    35                      40                      45
Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr
                    50                      55                      60
Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu
                    65                      70                      75                      80
Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln
                    85                      90                      95
Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg
                    100                     105                     110
Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys
                    115                     120                     125
Phe Thr Met Cys Cys Ile Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn
                    130                     135                     140
Arg Thr Ser Pro Arg Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln
                    145                     150                     155                     160
Glu Ala Tyr Met Thr Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu
                    165                     170                     175
Val Thr Val Ile Gly Ala Ile Ile Ile Leu Leu Val Glu Val Pro Asp
                    180                     185                     190
Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln Thr Ile Leu Gly
                    195                     200                     205
Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe Met Val Leu Val
                    210                     215                     220
Thr Met Val Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met
                    225                     230                     235                     240
Ser Phe Ala Leu Val Leu Gly Trp Cys Asn Val Met Tyr Phe Ala Arg
                    245                     250                     255
Gly Phe Gln Met Leu Gly Pro Phe Thr Ile Met Ile Gln Lys Met Ile
                    260                     265                     270
Phe Gly Asp Leu Met Arg Phe Cys Trp Leu Met Ala Val Val Ile Leu
                    275                     280                     285
Gly Phe Ala Ser Ala Phe Tyr Ile Ile Phe Gln Thr Glu Asp Pro Glu
                    290                     295                     300
Glu Leu Gly His Phe Tyr Asp Tyr Pro Met Ala Leu Phe Ser Thr Phe
                    305                     310                     315                     320
Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro Ala Asn Tyr Asn Val Asp
                    325                     330                     335
Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala Ala Phe Ala Ile Ile Ala

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337

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          340          345          350
Thr Leu Leu Met Leu Asn Leu Leu Ile Ala Met Met Gly Asp Thr His
          355          360          365
Trp Arg Val Ala His Glu Arg Asp Glu Leu Trp Arg Ala Gln Ile Val
          370          375          380
Ala Thr Thr Val Met Leu Glu Arg Lys Leu Pro Arg Cys Leu Trp Pro
385          390          395          400
Arg Ser Gly Ile Cys Gly Arg Glu Tyr Gly Leu Gly Asp Arg Trp Phe
          405          410          415
Leu Arg Val Glu Asp Arg Gln Asp Leu Asn Arg Gln Arg Ile Gln Arg
          420          425          430
Tyr Ala Gln Ala Phe His Thr Arg Gly Ser Glu Asp Leu Asp Lys Asp
          435          440          445
Ser Val Glu Lys Leu Glu Leu Gly Cys Pro Phe Ser Pro His Leu Ser
          450          455          460
Leu Pro Met Pro Ser Val Ser Arg Ser Thr Ser Arg Ser Ser Ala Asn
465          470          475          480
Trp Glu Arg Leu Arg Gln Gly Thr Leu Arg Arg Asp Leu Arg Gly Ile
          485          490          495
Ile Asn Arg Gly Leu Glu Asp Gly Glu Ser Trp Glu Tyr Gln Ile
          500          505          510

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<210> 910  
 <211> 134  
 <212> PRT  
 <213> Homo sapiens

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<400> 910
Met Tyr Asn Leu Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln
          5          10          15
Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu
          20          25          30
Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys
          35          40          45
Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr
          50          55          60
Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu
          65          70          75          80
Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln
          85          90          95
Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg
          100          105          110
Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys
          115          120          125
Phe Thr Met Cys Cys Ile
          130

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<210> 911  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

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<400> 911
Ala Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr Ser Pro Arg
          5          10          15
Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala Tyr Met Thr
          20          25          30
Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu Val Thr Val Ile Gly

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338

35 40 45  
 Ala Ile Ile Ile Leu Leu Val  
 50 55

<210> 912  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 912  
 Glu Val Pro Asp Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln  
 5 10 15  
 Thr Ile Leu Gly Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe  
 20 25 30  
 Met Val Leu Val Thr Met Val  
 35

<210> 913  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 913  
 Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met Ser Phe Ala  
 5 10 15  
 Leu Val Leu

<210> 914  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 914  
 Gly Trp Cys Asn Val Met Tyr Phe Ala Arg Gly Phe Gln Met Leu Gly  
 5 10 15  
 Pro Phe Thr Ile Met Ile Gln Lys Met Ile Phe Gly Asp Leu Met Arg  
 20 25 30  
 Phe Cys Trp Leu Met Ala Val Val Ile Leu Gly Phe Ala Ser Ala Phe  
 35 40 45  
 Tyr Ile Ile Phe  
 50

<210> 915  
 <211> 213  
 <212> PRT  
 <213> Homo sapiens

<400> 915  
 Gln Thr Glu Asp Pro Glu Glu Leu Gly His Phe Tyr Asp Tyr Pro Met  
 5 10 15  
 Ala Leu Phe Ser Thr Phe Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro  
 20 25 30  
 Ala Asn Tyr Asn Val Asp Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala  
 35 40 45  
 Ala Phe Ala Ile Ile Ala Thr Leu Leu Met Leu Asn Leu Leu Ile Ala  
 50 55 60  
 Met Met Gly Asp Thr His Trp Arg Val Ala His Glu Arg Asp Glu Leu

339

65					70					75				80	
Trp	Arg	Ala	Gln	Ile	Val	Ala	Thr	Thr	Val	Met	Leu	Glu	Arg	Lys	Leu
				85					90					95	
Pro	Arg	Cys	Leu	Trp	Pro	Arg	Ser	Gly	Ile	Cys	Gly	Arg	Glu	Tyr	Gly
			100					105					110		
Leu	Gly	Asp	Arg	Trp	Phe	Leu	Arg	Val	Glu	Asp	Arg	Gln	Asp	Leu	Asn
		115					120					125			
Arg	Gln	Arg	Ile	Gln	Arg	Tyr	Ala	Gln	Ala	Phe	His	Thr	Arg	Gly	Ser
		130				135					140				
Glu	Asp	Leu	Asp	Lys	Asp	Ser	Val	Glu	Lys	Leu	Glu	Leu	Gly	Cys	Pro
		145			150					155					160
Phe	Ser	Pro	His	Leu	Ser	Leu	Pro	Met	Pro	Ser	Val	Ser	Arg	Ser	Thr
			165						170					175	
Ser	Arg	Ser	Ser	Ala	Asn	Trp	Glu	Arg	Leu	Arg	Gln	Gly	Thr	Leu	Arg
			180					185					190		
Arg	Asp	Leu	Arg	Gly	Ile	Ile	Asn	Arg	Gly	Leu	Glu	Asp	Gly	Glu	Ser
		195					200					205			
Trp	Glu	Tyr	Gln	Ile											
			210												

&lt;210&gt; 916

&lt;211&gt; 1302

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 916

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ttcatcctaa	taggcctccc	tggttttagaa	gaggctcagt	tctgggttggc	cttccatttg	180
tgctccctct	accttattgc	tgtgctaggt	aacttgacaa	tcatctacat	tgtgctggact	240
gagcacagcc	tgcatgagcc	catgtatata	tttctttgca	tgctttcagg	cattgacatc	300
ctcatctcca	cctcatccat	gccccaaatg	ctggccatct	tctggttcaa	ttccactacc	360
atccagtttg	atgcttgtct	gctacagatg	tttgccatcc	actccttato	tggtcatggaa	420
tccacagtgc	tgctggccat	ggcttttgac	cgctatgtgg	ccatctgtca	cccactgcgc	480
catgccacag	tacttacgtt	gcctogtgto	acaaaaattg	gtgtggctgc	tgtggtgcgg	540
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aatatccttt	cccattccta	ctgcctacac	caagatgtca	tgaagctggc	ctgtgatgat	660
atccgggtca	atgtcgtcta	tggccttato	gtcatcatct	ccgccattgg	cctggactca	720
cttctcatct	ccttctcata	tctgcttatt	cttaagactg	tgttgggctt	gacacgtgaa	780
gcccaggcca	aggcatttgg	cacttgcgto	tctcatgtgt	gtgctgtgtt	catattctat	840
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cccgctcatct	tgcccaatat	ctatctgctg	gttccctcctg	tgctcaaccc	aattgtctat	960
ggagtgaaga	caaaggagat	tgcacagcgc	atccttcgac	ttttccatgt	ggccacacac	1020
gcttcagagc	cctaggtgtc	agtgatcaaa	cttcttttcc	attcagagtc	ctctgattca	1080
gatttttaatg	ttaacatttt	ggaagacagt	attcagaaaa	aaaatttcc	taataaaaaat	1140
acaactcaga	tccttcaaat	atgaaactgg	ttggggaatc	tccatttttt	caatattatt	1200
ttcttctttg	ttttcttgct	acatataatt	attaataccc	tgactagggt	gtgggttgag	1260
ggttattact	tttcatttta	ccatgcagtc	caaactctaaa	ct		1302

&lt;210&gt; 917

&lt;211&gt; 2061

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 917

acgattcgac	agcgcaccc	tgcacttttc	catgtggcca	cacacgcttc	agagccctag	60
gtgtcagtg	tcaaacttct	tttccattca	gagtcctctg	attcagattt	taatgttaac	120

340

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at tt tt tt g ga ag ac ag t at t t ca g a a a a a a a a t t t c c t t a a t a a a a t a c a a c t c a g a t c c t t 180
c a a a t a t g a a a c t g g t t g g g g a a t c t c c a t t t t t t c a a t t a t t t t c t t t g t t t t t c 240
t t g c t a c a t a t a a t t a t t a t t a a t a c c c t g a c t a g g t t g t g g t t g g a g g g t t a t t a c t t t t c a 300
t t t t a c c a t g c a g t c c a a a t c t a a a c t g c t t c t a c t g a t g g t t t a c a g c a t t c t g a g a t a 360
a g a a t g g t a c a t c t a g a g a a c a t t t g c c a a a g g c c t a a g c a c g g c a a a g g a a a a t a a a c a 420
c a g a a t a t a a t a a a a t g a g a t a a t c t a g c t t a a a a c t a t a a c t t c c t c t t c a g a a c t c c c 480
a a c c a c a t t g g a t c t c a g a a a a t g c t g t c t t c a a a a t g a c t t c a a a g g g g a a g a t t g g a a g t a a a g c c t t 540
t t t t t c c t c t g g a c a c t a g c a c t t a a g g g g a a g a t t g g a a g t a a a g c c t t g a a a g a g a t a 600
c a t t t a c c t a c g t t a a t g a a a g t t g a c a c a c t g t t c t g a g a g t t t t c a c a t a t g g a c 660
c c t g t t t t t c t a t t t t a a t t t c t t a t c a a c c c t t t a a t t a g g c a a a g a t a t t a t t a g t a 720
c c c t c a t t g t a g c c a t g g g a a a a t t g a t g t t c a g t g g g g a t c a g t g a a t t a a a t g g g g t c 780
a t a c a a g t a t a a a a t t a a a a a a a a g g a c t t c a t g c c c a a t c t c a t a t g a t g t g g a a g a 840
a c t g t t a g a g a g a c c a a c a g g g t a g a g a t t t c a g a g t c t t a c a t t t t c t a g 900
a g g a g g t a t t t a a t t t c t t c a c t c a t c c a g t g t t g t a t t a g g a a t t t c c t g g c a a c a 960
g a a c t c a t g g c t t t a a t c c c a c t a g c t a t t g c t t a t t g t c c t g g t c c a a t t g c c a a t t a c 1020
c t g t g t c t t g g a a g t g a c t a g g t t c a c c a t t a t g g a a g a t t c t t a t t c a g a a a g 1080
t c t g c a t a g g g c t t a t a g c a a g t t a t t t t t t t a a a a g t t c c a t a g g t g a t t c t g a t a g 1140
g c a g t g a g g t t a g g g a g c c a c c a g t t a t g a t g g g a a g t a t g g a a t g g c a g g a a t g g c a g 1200
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c t t t a t t t g g g g c t t t g t g c a g t a t g g a a c a g g g a c t t t g a g a c c a g g a a g c a a t c t g a 1320
c t t a g g c a t g g g a a t c a g g c a c c a c a a c a g t g t a a c c a a g g g t t a a t a g g t g t t a a t a g g t 1380
t t c a t c t t c a c a g g a t a t g a c a a c a g t g t t a a c c a a g a a a c t c a a a t t a c a a t a c t a a 1440
a a c a t g t g a t c a t a t a t g t g t a a g t t t t c a t t t t c t t t t t c a a t c c t c a g g t t c c c t g a t 1500
a t g g a t t c c t a t a a c a t g c t t t c a t c c c c t t t g t a a t g g a t a t c a t a t t t g g a a a t g c c 1560
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a t g t c a t c t c t g t t c a t c a t t g a c t g c t c t t t g c t c a t c a t t g a a t c c c c c a g c a a a g t g 1680
c c t a g a a c a t a a t a g t g c t t a t g c t t g a c a c g g t t a t t t t t c a t c a a a c c t g a t t c c t t 1740
c t g t c c t g a a c a c a t a g c c a g g c a a t t t t c c a g c c t t c t t t g a g t t g g g t a t t a t t a a a t 1800
t c t g g c c a t t a c t t c c a a t g t g a g t g g a a g t g a c a t g t g c a a t t t c t a t a c c t g g c t c a t 1860
a a a a c c c t c c c a t g t g c a g c c t t c a t g t t g a c a t t a a a t g t g a c t t g g g a a g c t a t g t g 1920
t t a c a c a g a g t a a a t c a c c a g a a g c c t g g a t t t c t g a a a a a a c t g t g c a g a g c a a a c c t 1980
c t g t c a t t t g c a a c t c c c a c t t g t a t t t g t a c g a g g c a g t t g g a t a a g t g a a a a a t a a a g 2040
t a c t a t t g t g t c a a g t c t c t g g 2061

```

&lt;210&gt; 918

&lt;211&gt; 957

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 918

```

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c c t g g t t t a g a a g a g g c t c a g t t c t g g t t g g c c t t c c c a t t g t g c t c c c t a c c t t a t t 120
g c t g t g c t a g g t a a c t t g a c a a t c a t c t a c a t t g t g c g g a c t g a g c a c a g c c t g c a t g a g 180
c c c a t g t a t a t a t t t t c t t t g c a t g c t t t t c a g g c a t t g a c a t c c t c a t c t c a c c t c a t c c 240
a t g c c c a a a a t g c t g g c c a t c t t c t g g t t c a a t t c c a c t a c c a t c c a g t t t g a t g c t t g t 300
c t g c t a c a g a t g t t t g c c a t c c a c t c o c t t a t c t g g c a t g g a a t c c a c a g t g c t g c t g g c c 360
a t g g c t t t t g a c c g c t a t g t g g c a t c t g t g g c a c c c a c t g c g c c a t g c c a c a g t a c t a c t a c g 420
t t g c c t c g t g t c a c c a a a a t t g g t g t g g c t g c t g t g g t g c g g g g g c t g c a c t g a t g g c a 480
c c c c t t c c t g t c t t c a t c a a g c a g c t g c c c t t c t g c c g c t c c a a t a t c c t t t c c a t t c c 540
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t a t g g c c t t a t c g t c a t c a t c t c o g c c a t t g g c c t g g a c t c a c t t o t c a t c t c c t t c t c a 660
t a t c t g c t t a t t c t t a a g a c t g t g t t g g g c t t t g a c a c g t g a a g c c a g g c a a g g c a a g g c a t t t 720
g g c a c t t g c g t c t c t c a t g t g t g c t g t g t t c a t a t t c t a t g t a c c t t t c a t t g g a t t g 780
t c c a t g g t g c a t c g c t t t a g c a a g c g g c g t g a c t c t c c g c t g c c c g t c a t c t t g g c c a a t 840
a t c t a t c t g c t g g t t c c t c c t g t g t g c t a a c c c a a t t g t c t a t g g a g t g a a g a c a a a g g a g 900
a t t c g a c a g c g c a t c c t t c g a c t t t t c c a t g t g g c c a c a c a c g c t t c a g a g c c t a g 957

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&lt;210&gt; 919

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<211> 954
<212> DNA
<213> Homo sapiens
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<400> 919						
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cctgtgtctag	gtaacttgac	aatcatctac	attgtgcgga	ctgagcacag	cctgcacatgag	180
ggcatgtata	tatttctttg	catgctttca	ggcatgtgaca	tctcatcttc	caactcatcc	240
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atggccttttg	accgctatgt	ggccatctgt	cacccactgc	gccatgccac	agtaacttaag	420
ttgcctctgt	tcaccaaaa	tggtgtggct	gctgtggtgc	ggggggctgc	actgtaggca	480
ccccctctgt	tcttcatcaa	gcagctggcc	ttctgcgcgt	ccaatatctc	ttcccattcc	540
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tatggcctta	tcgtcatcat	ctccgccatt	ggcctggact	cacttctcat	ctccttctca	660
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<210> 920
<211> 318
<212> PRT
<213> Homo sapiens
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<400> 920															
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			20					25					30		
Pro	Leu	Cys	Ser	Leu	Tyr	Leu	Ile	Ala	Val	Leu	Gly	Asn	Leu	Thr	Ile
		35					40					45			
Ile	Tyr	Ile	Val	Arg	Thr	Glu	His	Ser	Leu	His	Glu	Pro	Met	Tyr	Ile
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Phe	Leu	Cys	Met	Leu	Ser	Gly	Ile	Asp	Ile	Leu	Ile	Ser	Thr	Ser	Ser
65					70					75					80
Met	Pro	Lys	Met	Leu	Ala	Ile	Phe	Trp	Phe	Asn	Ser	Thr	Thr	Ile	Gln
				85					90					95	
Phe	Asp	Ala	Cys	Leu	Leu	Gln	Met	Phe	Ala	Ile	His	Ser	Leu	Ser	Gly
			100					105					110		
Met	Glu	Ser	Thr	Val	Leu	Leu	Ala	Met	Ala	Phe	Asp	Arg	Tyr	Val	Ala
			115				120					125			
Ile	Cys	His	Pro	Leu	Arg	His	Ala	Thr	Val	Leu	Thr	Leu	Pro	Arg	Val
	130					135					140				
Thr	Lys	Ile	Gly	Val	Ala	Ala	Val	Val	Arg	Gly	Ala	Ala	Leu	Met	Ala
145					150					155					160
Pro	Leu	Pro	Val	Phe	Ile	Lys	Gln	Leu	Pro	Phe	Cys	Arg	Ser	Asn	Ile
				165					170					175	
Leu	Ser	His	Ser	Tyr	Cys	Leu	His	Gln	Asp	Val	Met	Lys	Leu	Ala	Cys
			180					185					190		
Asp	Asp	Ile	Arg	Val	Asn	Val	Val	Tyr	Gly	Leu	Ile	Val	Ile	Ile	Ser
		195					200					205			
Ala	Ile	Gly	Leu	Asp	Ser	Leu	Leu	Ile	Ser	Phe	Ser	Tyr	Leu	Leu	Ile
	210					215					220				
Leu	Lys	Thr	Val	Leu	Gly	Leu	Thr	Arg	Glu	Ala	Gln	Ala	Lys	Ala	Phe
225					230					235					240

342

Gly	Thr	Cys	Val	Ser	His	Val	Cys	Ala	Val	Phe	Ile	Phe	Tyr	Val	Pro
				245					250					255	
Phe	Ile	Gly	Leu	Ser	Met	Val	His	Arg	Phe	Ser	Lys	Arg	Arg	Asp	Ser
			260					265					270		
Pro	Leu	Pro	Val	Ile	Leu	Ala	Asn	Ile	Tyr	Leu	Leu	Val	Pro	Pro	Val
			275				280					285			
Leu	Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr	Lys	Glu	Ile	Arg	Gln	Arg
	290					295					300				
Ile	Leu	Arg	Leu	Phe	His	Val	Ala	Thr	His	Ala	Ser	Glu	Pro		
305					310					315					

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<210> 921
<211> 28
<212> PRT
<213> Homo sapiens
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<400> 921
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Leu Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe
                20                      25

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<210> 922
<211> 9
<212> PRT
<213> Homo sapiens
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<400> 922  
Arg Thr Glu His Ser Leu His Glu Pro  
5

```
<210> 923
<211> 21
<212> PRT
<213> Homo sapiens
```

```
<400> 923
Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln Phe Asp
              5                10                    15
Ala Cys Leu Leu Gln
           20
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```
<210> 924
<211> 20
<212> PRT
<213> Homo sapiens
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```

<400> 924
Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg His Ala Thr Val Leu
                    5              10              15
Thr Leu Pro Arg
                20

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```
<210> 925
<211> 37
<212> PRT
<213> Homo sapiens
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343

&lt;400&gt; 925

Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile Leu Ser His Ser  
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 Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Asp Asp Ile Arg  
                             20                            25                            30  
 Val Asn Val Val Tyr  
                             35

&lt;210&gt; 926

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 926

Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys  
                             5                            10

&lt;210&gt; 927

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 927

Val His Arg Phe Ser Lys Arg Arg Asp Ser  
                             5                            10

&lt;210&gt; 928

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 928

Lys Thr Lys Glu Ile Arg Gln Arg Ile Leu Arg Leu Phe His Val Ala  
                             5                            10                            15

Thr His Ala Ser Glu Pro

20

&lt;210&gt; 929

&lt;211&gt; 3245

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 929

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 gcggggagcg ccgcctggag cgcggcaggt catattgaac attccagata cctatcatta 120  
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 gccccgaggg tcctgacgca ggcttccaac cccgtcgtct gcacgcagcc caaatcccca 360  
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 ggatcaaact tcattcctca ggtgtactca tctcagagga agtcctggca ccctgtgtgc 660  
 caagacgact ggaacgagaa ctacgggcgg gcggcctgca gggacatggg ctataagaat 720  
 aatttttact ctagccaagg aatagtggaat gacagcggat ccaccagctt tatgaaactg 780

344

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gccgc 3245

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&lt;210&gt; 930

&lt;211&gt; 1479

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 930

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ccggctcagt actaccgctc ccccggtgcc cagtacgcc cgagggtcct gacgcaggct 180
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actaagaaaag cactgtgcat caocttgacc ctggggacct tcctcgtggg agctgcgctg 300
gocgtggcc tactctggaa gttcatgggc agcaagtgtc ccaactctgg gatagagtgc 360
gactcctcag gtacctgcac caaccctct aactggtgtg atggcgtgtc aactgcccc 420
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345

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&lt;210&gt; 931

&lt;211&gt; 1476

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 931

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ggcggggagg	acgagaatcg	gtgtgttcgc	ctctacggat	caaacttcat	ccttcagggtg	480
tactcatctc	agaggaagtc	ctggcaccct	gtgtgccaa	acgactggaa	cgagaactac	540
gggcggg	cctgcagga	catgggctat	aagaataatt	tttactctag	ccaaggaata	600
gtggatgaca	gcggatccac	cagctttatg	aaactgaaca	caagtgccgg	caatgtcgat	660
atctataaaa	aactgtacca	cagtgatgcc	tgttcttcaa	aagcagtgg	ttctttacgc	720
tgtatagcct	gcgggggtcaa	cttgaactca	agccgccaga	gcaggattgt	gggcggcgag	780
agcgcgctcc	cgggggcctg	gccctggcag	gtcagcctgc	acgtccagaa	cgtccacgtg	840
tgcggaggct	ccatcatcac	ccccgagtgg	atcgtgacag	ccgcccactg	cgtggaaaaa	900
cctcttaaca	atccatggca	ttggacggca	tttgcgggga	ttttgagaca	atctttcatg	960
ttctatggag	ccggatacca	agtagaaaaa	gtgatttctc	atccaaatta	tgactccaag	1020
accaagaaca	atgacattgc	gctgatgaag	ctgcagaagc	ctctgacttt	caacgacctt	1080
gtgaaaccag	tgtgtctgcc	caaccaggc	atgatgctgc	agccagaaca	gctctgctgg	1140
atttccgggt	ggggggccac	cgaggagaaa	gggaagacct	cagaagtgt	gaacgctgcc	1200
aaggtgcttc	tcattgagac	acagagatgc	aacagcagat	atgtctatga	caacctgatc	1260
acaccagcca	tgatctgtgc	cggcttcctg	caggggaacg	tcgattcttg	ccagggtgac	1320
agtggagggc	ctctggtcac	ttcgaagaac	aatatctgg	ggctgatagg	ggatacaagc	1380
tggggttctg	gctgtgccaa	agcttacaga	ccaggagtgt	acgggaatgt	gatggtattc	1440
acggactgga	tttatcgaca	aatgagggca	gacgggc			1476

&lt;210&gt; 932

&lt;211&gt; 492

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 932

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Met	Ala	Leu	Asn	Ser	Gly	Ser	Pro	Pro	Ala	Ile	Gly	Pro	Tyr	Tyr	Glu
				5					10					15	
Asn	His	Gly	Tyr	Gln	Pro	Glu	Asn	Pro	Tyr	Pro	Ala	Gln	Pro	Thr	Val
			20					25					30		
Val	Pro	Thr	Val	Tyr	Glu	Val	His	Pro	Ala	Gln	Tyr	Tyr	Pro	Ser	Pro
		35					40					45			
Val	Pro	Gln	Tyr	Ala	Pro	Arg	Val	Leu	Thr	Gln	Ala	Ser	Asn	Pro	Val
	50					55					60				
Val	Cys	Thr	Gln	Pro	Lys	Ser	Pro	Ser	Gly	Thr	Val	Cys	Thr	Ser	Lys
65					70					75					80
Thr	Lys	Lys	Ala	Leu	Cys	Ile	Thr	Leu	Thr	Leu	Gly	Thr	Phe	Leu	Val
			85					90						95	
Gly	Ala	Ala	Leu	Ala	Ala	Gly	Leu	Leu	Trp	Lys	Phe	Met	Gly	Ser	Lys
			100					105					110		
Cys	Ser	Asn	Ser	Gly	Ile	Glu	Cys	Asp	Ser	Ser	Gly	Thr	Cys	Ile	Asn
		115					120					125			
Pro	Ser	Asn	Trp	Cys	Asp	Gly	Val	Ser	His	Cys	Pro	Gly	Gly	Glu	Asp
	130					135					140				
Glu	Asn	Arg	Cys	Val	Arg	Leu	Tyr	Gly	Ser	Asn	Phe	Ile	Leu	Gln	Val
145					150					155					160
Tyr	Ser	Ser	Gln	Arg	Lys	Ser	Trp	His	Pro	Val	Cys	Gln	Asp	Asp	Trp
			165					170						175	
Asn	Glu	Asn	Tyr	Gly	Arg	Ala	Ala	Cys	Arg	Asp	Met	Gly	Tyr	Lys	Asn
			180					185					190		
Asn	Phe	Tyr	Ser	Ser	Gln	Gly	Ile	Val	Asp	Asp	Ser	Gly	Ser	Thr	Ser
	195						200					205			
Phe	Met	Lys	Leu	Asn	Thr	Ser	Ala	Gly	Asn	Val	Asp	Ile	Tyr	Lys	Lys
	210					215					220				
Leu	Tyr	His	Ser	Asp	Ala	Cys	Ser	Ser	Lys	Ala	Val	Val	Ser	Leu	Arg
225					230					235					240
Cys	Ile	Ala	Cys	Gly	Val	Asn	Leu	Asn	Ser	Ser	Arg	Gln	Ser	Arg	Ile
			245					250						255	
Val	Gly	Gly	Glu	Ser	Ala	Leu	Pro	Gly	Ala	Trp	Pro	Trp	Gln	Val	Ser
			260					265					270		
Leu	His	Val	Gln	Asn	Val	His	Val	Cys	Gly	Gly	Ser	Ile	Ile	Thr	Pro
	275					280						285			
Glu	Trp	Ile	Val	Thr	Ala	Ala	His	Cys	Val	Glu	Lys	Pro	Leu	Asn	Asn
	290					295					300				
Pro	Trp	His	Trp	Thr	Ala	Phe	Ala	Gly	Ile	Leu	Arg	Gln	Ser	Phe	Met
305					310					315					320
Phe	Tyr	Gly	Ala	Gly	Tyr	Gln	Val	Glu	Lys	Val	Ile	Ser	His	Pro	Asn
			325					330						335	
Tyr	Asp	Ser	Lys	Thr	Lys	Asn	Asn	Asp	Ile	Ala	Leu	Met	Lys	Leu	Gln
			340					345					350		
Lys	Pro	Leu	Thr	Phe	Asn	Asp	Leu	Val	Lys	Pro	Val	Cys	Leu	Pro	Asn
		355					360					365			
Pro	Gly	Met	Met	Leu	Gln	Pro	Glu	Gln	Leu	Cys	Trp	Ile	Ser	Gly	Trp
	370					375					380				
Gly	Ala	Thr	Glu	Glu	Lys	Gly	Lys	Thr	Ser	Glu	Val	Leu	Asn	Ala	Ala
385					390					395					400
Lys	Val	Leu	Leu	Ile	Glu	Thr	Gln	Arg	Cys	Asn	Ser	Arg	Tyr	Val	Tyr
			405					410						415	
Asp	Asn	Leu	Ile	Thr	Pro	Ala	Met	Ile	Cys	Ala	Gly	Phe	Leu	Gln	Gly
			420					425					430		
Asn	Val	Asp	Ser	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Val	Thr	Ser
		435					440					445			
Lys	Asn	Asn	Ile	Trp	Trp	Leu	Ile	Gly	Asp	Thr	Ser	Trp	Gly	Ser	Gly
	450					455					460				

347

Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe  
 465 470 475 480  
 Thr Asp Trp Ile Tyr Arg Gln Met Arg Ala Asp Gly  
 485 490

<210> 933  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 933  
 Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu  
 5 10 15  
 Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val  
 20 25 30  
 Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro  
 35 40 45  
 Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val  
 50 55 60  
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys  
 65 70 75 80  
 Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val  
 85 90 95  
 Gly Ala Ala Leu  
 100

<210> 934  
 <211> 393  
 <212> PRT  
 <213> Homo sapiens

<400> 934  
 Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys Cys Ser Asn  
 5 10 15  
 Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn Pro Ser Asn  
 20 25 30  
 Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp Glu Asn Arg  
 35 40 45  
 Cys Val Arg Leu Tyr Gly Ser Asn Phe Ile Leu Gln Val Tyr Ser Ser  
 50 55 60  
 Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp Asn Glu Asn  
 65 70 75 80  
 Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn Asn Phe Tyr  
 85 90 95  
 Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser Phe Met Lys  
 100 105 110  
 Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys Leu Tyr His  
 115 120 125  
 Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg Cys Ile Ala  
 130 135 140  
 Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile Val Gly Gly  
 145 150 155 160  
 Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser Leu His Val  
 165 170 175  
 Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro Glu Trp Ile  
 180 185 190

348

Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn Pro Trp His  
 195 200 205  
 Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met Phe Tyr Gly  
 210 215 220  
 Ala Gly Tyr Gln Val Glu Lys Val Ile Ser His Pro Asn Tyr Asp Ser  
 225 230 235 240  
 Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln Lys Pro Leu  
 245 250 255  
 Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn Pro Gly Met  
 260 265 270  
 Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp Gly Ala Thr  
 275 280 285  
 Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Lys Val Leu  
 290 295 300  
 Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr Asp Asn Leu  
 305 310 315 320  
 Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly Asn Val Asp  
 325 330 335  
 Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser Lys Asn Asn  
 340 345 350  
 Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly Cys Ala Lys  
 355 360 365  
 Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe Thr Asp Trp  
 370 375 380  
 Ile Tyr Arg Gln Met Arg Ala Asp Gly  
 385 390

<210> 935  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR Primer

<400> 935  
 gtgctgtggg agtccccgcg gc 22

<210> 936  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR Primer

<400> 936  
 cgtgaactcg agtcattaga ttaacctcgt ggacgc 36

<210> 937  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR Primer

349

<400> 937  
gtgctgtggg agtccccgcg gc

22

<210> 938  
<211> 1158  
<212> DNA  
<213> Homo sapiens

<400> 938  
catatgcagc atcaccacca tcaccacgtg ctgtgggagt ccccgcgga gtgcagcagc 60  
tggacacttt gcgagggtt ttgctggctg ctgctgctgc ccgtcatgct actcatcgta 120  
gcccgcccg tgaagctcgc tgctttccct acctccttaa gtgactgcc aacgcccacc 180  
ggctggaatt gctctggtta tgatgacaga gaaaatgato tcttcctctg tgacaccaac 240  
acctgtaaat ttgatgggga atgtttaaga attggagaca ctgtgacttg cgtctgtcag 300  
ttcaagtgca acaatgacta tgtgcctgtg tgtggctcca atggggagag ctaccagaat 360  
gagtgttacc tgcgacaggc tgcattgcaa cagcagagtg agatacttgt ggtgtcagaa 420  
ggatcatgtg ccacagatgc aggatcagga tctggagatg gagtccatga aggctctgga 480  
gaaactagtc aaaaggagac atccacctgt gatatttgcc agtttggtgc agaattgtgac 540  
gaagatgccg aggatgtctg gtgtgtgtgt aatattgact gttctcaaac caacttcaat 600  
cccctctgcg cttctgatgg gaaatcttat gataatgcat gccaaatcaa agaagcatcg 660  
tgtcagaaac aggagaaaat tgaagtcatt tctttgggtc gatgtcaaga taacacaaact 720  
acaactacta agtctgaaga tgggcattat gcaagaacag attatgcaga gaatgctaac 780  
aaattagaag aaagtgccag agaaccaccac ataccttgtc cggaacatta caatggcttc 840  
tgcatgcatt ggaagtgtga gcattctatc aatatgcagg agccatcttg caggtgtgat 900  
gtcgtgtata ctggacaaca ctgtgaaaaa aaggactaca gtgttctata cgttggtccc 960  
ggctctgtac gatttcagta tgtcttaatc gcagctgtga ttggaacaat tcagattgct 1020  
gtcatctgtg tgggtggctc ctgcatcaca aggaaatgcc ccagaagcaa cagaattcac 1080  
agacagaagc aaaatacagg gcactacagt tcagacaata caacaagagc gtccacgagg 1140  
ttaatctaata gactcgag 1158

<210> 939  
<211> 1020  
<212> DNA  
<213> Homo sapiens

<400> 939  
atgcagcatc accaccatca ccacgactgc caaacgcca cgggctggaa ttgctctggt 60  
tatgatgaca gagaaaatga tctcttcctc tgtgacacca acacctgtaa atttgatggg 120  
gaatgtttta gaattggaga cactgtgact tgctctgtgc agttcaagt caacaatgac 180  
tatgtgcctg tgtgtggctc caatggggag agctaccaga atgagtgtta cctgcgacag 240  
gctgcatgca aacagcagag tgagatactt gtggtgtcag aaggatcatg tgccacagat 300  
gcaggatcag gatctggaga tggagtccat gaaggctctg gagaaactag tcaaaaggag 360  
acatccaact gtgatatttg ccagtttggt gcagaatgtg acgaagatgc cgaggatgtc 420  
tgggtgtgtg gtaatatattga ctgttctcaa accaaacttca atccccctctg cgcttctgat 480  
gggaaatctt atgataatgc atgcaaaatc aaagaagcat cgtgtcagaa acaggagaaa 540  
attgaagtca tgtctttggg tcatgtcaa gataacacaa ctacaactac taagtctgaa 600  
gatgggcatt atgcaagaac agattatgca gagaatgcta acaaaattaga agaaagtgcc 660  
agagaacacc acataccttg tccggaacat tacaatggct tctgcatgca tgggaagtgt 720  
gagcattcta tcaatatgca ggagcattct tgcaggtgtg atgctgggta tactggacaa 780  
cactgtgaaa aaaaggacta cagtgttcta tacgttgttc ccggtcctgt acgatttcag 840  
tatgtcttaa tcgcagctgt gattggaaca attcagattg ctgtcatctg tgtgggtggtc 900  
ctctgcatca caaggaaatg cccagaagc aacagaattc acagacagaa gcaaaatata 960  
gggcactaca gttcagacaa tacaacaaga gcgtccacga ggttaattcta atgactcgag 1020

<210> 940  
<211> 336

350

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 940

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Met Gln His His His His His His Asp Cys Gln Thr Pro Thr Gly Trp
                    5                      10
Asn Cys Ser Gly Tyr Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp
                20                      25                      30
Thr Asn Thr Cys Lys Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr
                35                      40                      45
Val Thr Cys Val Cys Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val
                50                      55                      60
Cys Gly Ser Asn Gly Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln
                65                      70                      75                      80
Ala Ala Cys Lys Gln Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser
                85                      90                      95
Cys Ala Thr Asp Ala Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly
                100                      105                      110
Ser Gly Glu Thr Ser Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln
                115                      120                      125
Phe Gly Ala Glu Cys Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys
                130                      135                      140
Asn Ile Asp Cys Ser Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp
                145                      150                      155                      160
Gly Lys Ser Tyr Asp Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln
                165                      170                      175
Lys Gln Glu Lys Ile Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn
                180                      185                      190
Thr Thr Thr Thr Thr Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp
                195                      200                      205
Tyr Ala Glu Asn Ala Asn Lys Leu Glu Glu Ser Ala Arg Glu His His
                210                      215                      220
Ile Pro Cys Pro Glu His Tyr Asn Gly Phe Cys Met His Gly Lys Cys
                225                      230                      235                      240
Glu His Ser Ile Asn Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly
                245                      250                      255
Tyr Thr Gly Gln His Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val
                260                      265                      270
Val Pro Gly Pro Val Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile
                275                      280                      285
Gly Thr Ile Gln Ile Ala Val Ile Cys Val Val Val Leu Cys Ile Thr
                290                      295                      300
Arg Lys Cys Pro Arg Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr
                305                      310                      315                      320
Gly His Tyr Ser Ser Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
                325                      330                      335

```

&lt;210&gt; 941

&lt;211&gt; 381

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 941

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Met Gln His His His His His His Val Leu Trp Glu Ser Pro Arg Gln
                    5                      10                      15
Cys Ser Ser Trp Thr Leu Cys Glu Gly Phe Cys Trp Leu Leu Leu Leu
                20                      25                      30

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## 351

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Pro Val Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe
      35      40      45
Pro Thr Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser
      50      55      60
Gly Tyr Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr
      65      70      75      80
Cys Lys Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys
      85      90      95
Val Cys Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser
      100      105      110
Asn Gly Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys
      115      120      125
Lys Gln Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr
      130      135      140
Asp Ala Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu
      145      150      155      160
Thr Ser Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala
      165      170      175
Glu Cys Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp
      180      185      190
Cys Ser Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser
      195      200      205
Tyr Asp Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu
      210      215      220
Lys Ile Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr
      225      230      235      240
Thr Thr Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu
      245      250      255
Asn Ala Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys
      260      265      270
Pro Glu His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser
      275      280      285
Ile Asn Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly
      290      295      300
Gln His Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly
      305      310      315      320
Pro Val Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile
      325      330      335
Gln Ile Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys
      340      345      350
Pro Arg Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr
      355      360      365
Ser Ser Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
      370      375      380

```

<210> 942  
 <211> 45  
 <212> DNA  
 <213> Homo sapiens

<400> 942  
 ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg tgaac

45

<210> 943  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 943

Leu	Leu	Ala	Asn	Gly	Arg	Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn
				5					10					15